

SEQUENCE LISTING

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<120> COMPOUNDS FOR IMMUNOTHERAPY AND DIAGNOSIS
OF COLON CANCER AND METHODS FOR THEIR USE

<130> 210121.471C14

<140> US

<141> 2001-12-19

<160> 1129

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<213> Homo sapiens

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10025380-1201

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 aggttagaag tgaggctgtg agcaggagcc cctgccaggg gatvcacgca mtctgtgggg 180
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 aataataacg ggacctatgc ctgttttgtc tctaacttgg ctactggccc gcaataattc 360
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<211> 332

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<213> Homo sapiens

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 gkktcwgawt gcwgtgrgtt amcakcmwtr ywtagksgm ayatrattta ramrgtayak 240
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<213> Homo sapiens

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 ttggtccctc gaggagctcc agatattaat ctacctaaact aagtccccag gtttcttcca 180
 ggcatggaag aattagtggg gctacatgga tgaggactag tcattgggca atatttcctg 240
 taaaaagaat ccctagacgc catactgagt ttttaagttcc ttaattccta atttaaggct 300
 tctagtgaag cctcctcaca gtaggcttca ctaggcccac agtgccccta gacctctgac 360
 aatcccaccc tagacagact ttattgcaaa atgcgcctga agaggcagat gattcccaag 420
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 tctggtcaaa agggttatag ttaatgctct gcactttttc ctgcatctta tgcattacaa 720
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 tgggtgtttca tagtacgggt ggcatacaga accccacata ccatgaaggc gttagaagca 840
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1005380.12901

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gcaatattcc cggtgttgta catgttgacg tacatgttgt tgttgtaaac tgctgtacca 1140
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<210> 9
<211> 604
<212> DNA
<213> Homo sapiens

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<223> n = A,T,C or G

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aattccacat ttgggatagg tcctctctgg aagtgaatgt caggcagtga catccaagtt 180
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gaaattggcg gagagctgcc gtggtgcatt cctcctgtag tgcttcaagn taatgcttca 420
tcctttntta ataacttttg atagacaggg gctagtcgca cagacctctg ggaagccctg 480
gaaaacgctg atgcttggtt gaagatctca agcgcagagt ctgcaagttc atcccctctt 540
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<210> 10
<211> 473
<212> DNA
<213> Homo sapiens

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<400> 10
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tgtctgtgga gaccttgagg ggacacgacac tggaggtggg ctgcagcggg gacatgctca 180
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ctggaagtga gcggttgacc ctctgggct cccctgaatt ctgtattcaa agatggaacc 420
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<210> 11
<211> 411
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 251, 276, 406, 409
<223> n = A,T,C or G

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<400> 11

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1005330.1301

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cagctcatca gtcaggactc gcctgcccac catatggtaa gcsgragggc atttgagcag 360
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```

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<211> 560
<212> DNA
<213> Homo sapiens

```

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<400> 12
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gcatctggat tcctaactct tttccgaaat ggcagggtgt agtgcctgta taaaatattc 180
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```

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<210> 13
<211> 150
<212> DNA
<213> Homo sapiens

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caaaataaaa gtaactgttt acgttggtga 150

```

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<210> 14
<211> 403
<212> DNA
<213> Homo sapiens

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```

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<210> 15
<211> 688
<212> DNA
<213> Homo sapiens

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<220>

<221> misc_feature

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<400> 15

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tgccangtnc nanntaatnc atanaaag                                     688

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<210> 16

<211> 408

<212> DNA

<213> Homo sapiens

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gataactcaac tcaaatatatt tgaaaaacag tttgaactgt cagaacaaac aaaattacca 360
atgtttcttc attgtccgaa actcacatgc tgaatttttg gacataat                                     408

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<210> 17

<211> 407

<212> DNA

<213> Homo sapiens

<400> 17

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tttctaaaac attccctctc ccactcctct cccacagagt gctggactgt tccaggccct 240
ccagtgggct gatgctggga cccttaggat ggggctccca gctcctttct cctgtgaatg 300
gaggcagaag acctccaata aagtgccttc tgggcttttt ctaacctttg tcttagctac 360
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<210> 18

<211> 405

<212> DNA

<213> Homo sapiens

<400> 18

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```

gtattaaagc agcggcagcc gctgcacgca gacatgaggg ctaggttaaa acagtaagat 120
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ccgagatagg taacagatga ggaagaaatt tgggcttgat tgaagtaatg ggggctgtct 360
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<210> 19
<211> 401
<212> DNA
<213> Homo sapiens

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<400> 19
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gaatgattgg tgatggcctg gatacggttt tggatgattt gagaagctaa atggaagata 300
caaggtccga ataaaaggag gagaaaaatg ggtattaaat gtctaagaat tgggaggacc 360
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```

```

<210> 20
<211> 331
<212> DNA
<213> Homo sapiens

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```

<400> 20
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```

<210> 21
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<212> DNA
<213> Homo sapiens

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<220>
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<223> n = A,T,C or G

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<400> 21
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agcttatgtc cagaccttct ggatccttgg cagtcacatt gccacttta gtgcctatag 180
ctacatcctc actgactttc gcttgggaata cgtgttggga aaattgaggt gcttcattca 240
catctgtcac aataagncgi gaacttggca aaagaacttg cattgtactt cacaccaaac 300
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<210> 22
<211> 360

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 317
<223> n = A,T,C or G

<400> 22
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gggactgggc gctaccaggt gcttcttaat gaagaggata actcagaatc atcggctata 120
gagcagccac ctacttcaaa cccagcaccg gcagattgtg caggctgcgt cttcagcacc 180
agcacttgaa actgactctt cccctccacc atatagtagt attactgggtg gaagtaccta 240
caacttcaga tacagaagtt tacgggtgagt tttatcccgt gccacctccc tatagcgttg 300
ctacctctct tcctacnwt a cgatgaaagc tgagaaggct aaagctgctg caatggcatg 360

<210> 23
<211> 251
<212> DNA
<213> Homo sapiens

<400> 23
ggcggagctc cagcagcagc tggaaaagga accttttgag gatggctttg caaatgggga 60
agaaagtact ccaaccagag atgctgtggt cacgtatact gcagaaagta aaggagtcgt 120
gaagtttggc tggatcaagg gtgtattagt acgttgtagt ttaaacattt ggggtgtgat 180
gcttttcatt agattgtcat ggattgtggg tcaagctgga ataggtctat cagtccttgt 240
aataatgatg g 251

<210> 24
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 182
<223> n = A,T,C or G

<400> 24
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cagctccagc cgcagcttar gcagcgggag gttctgtgtc ccagttgttt tccaatttca 120
ccggctcccg tggatgamcg ygggacctgy caswgctcct gkttycctgc yagsacacca 180
cnytttyccg tggacacrar kggaaackct tggaaattcac agctyatgtt ctttctcara 240
agtttgagaa agaactttct aaagtgaggg aatatgtcca attaattagt gtgtatgaaa 300
agaaactgtt aaacctaact gtccgaattg acatcatgga raaaggatac catttcttac 360
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c 421

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<213> Homo sapiens

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 <221> misc_feature
 <222> 81, 146, 291, 355
 <223> n = A,T,C or G

<400> 25
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 ttaaaaaata gcttggttgct tgcaanaaaag tccatataat cttattcccc cccaaatata 180
 attttataact ttgcactaaa ccaaaatagc ttatggaaaa ttagtattaa atagctaaac 240
 acagaaaacc tacagctata aataacataa aatacagttt aactttaatg ngatgcttaa 300
 acaaagcaaa ctatgatgca atatgaatca acttcattaa ttggacaagt ccagnggagg 360
 cacaaattag ataagcacta a 381

<210> 26
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 <213> Homo sapiens

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 <222> 219, 236, 276, 300, 303, 310, 325, 330, 335, 359, 374, 380,
 390
 <223> n = A,T,C or G

<400> 26
 ggaaaaggga ctggcctctc tgaagagtga gatgagggaa gtggaaggag agctggaaaag 60
 gaaggagctg gagtttgaca cgaatatgga tgcagtacag atggtgatta cagaagccca 120
 gaagggttgat accagaagcc aagaacgctg gggttacaat ccaagacaca ctcaacacat 180
 tagacgggct cctgcattct gatggaccaaa ccttttcang tggtaagatt gaagangggg 240
 cctgggctta cctgggaagc aaaaaactttt cccganccaa ggaacccagg attcaaccan 300
 gcnacttgcn ggccaaggaa ggcanaaactn ggaanaaaaag gccccttaag caaaagggnc 360
 accttcattt gctnggaaan cagcctttan ttggaatctt g 401

<210> 27
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32, 38, 49, 100, 142, 147, 181, 250, 258, 272, 274, 297,
 340, 341, 366, 368, 377
 <223> n = A,T,C or G

<400> 27
 aattgcaact ggacttttat tgggcagtta cnacaacnaa tgttttcana aaaatatttg 60
 gaaaaaatat accacttcat agctaagtct tacagagaan aggatttgct aataaaaactt 120
 aagttttgaa aattaagatg cnggtanagc ttctgaaacta atgcccacag ctccaaggaa 180
 nacatgtcct atttagttat tcaaatacca gttgagggca ttgtgattaa gcaaacaata 240
 tatttgttan aactttgntt ttaaataact gntncttgac attacttata aaggagnctc 300
 taactttcga tttctaaaac tatgtaatac aaaagtatan ntttccccat tttgataaaa 360
 gggccnanga tactgantag gaa 383

<210> 28
 <211> 401
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 212
 <223> n = A,T,C or G

<400> 28
 ggtcgcggtt cccctggctc acagtctgcc attatttgca tttttaaatg aagaaaagtt 60
 taacgtggat ggatggacag tttaacaatcc agtggagaagaa tacaggaggc agggcttgcc 120
 caatcaccat tggagaataa cttttatttaa taagtgtctat gagctctgcg aacttacc 180
 tgctcttttg gtggttccgt atcgtgcctc anatgatgac ctccggagag ttgcaacttt 240
 taggtcccga aatcgaattc cagtgtctgc atggattcat ccagaaaata agacgggtcat 300
 tgtgcgttgc agtcagcctc ttgtcgggtat gagtgggaaa cgaaaataaag atgatgagaa 360
 atatctcgat gttatcaggg agactaataa acaaatcttct a 401

<210> 29
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 29
 atatgagttt gccatctcca tggatgccat ttcaatgcct tcagggtaat cattctctcc 60
 ccaaagactg cccacggggg catcactcct gtgacgaaat gagggctgga ttgaagatgt 120
 tctgtgagc acccccctgg tcatcttttg ggtctcagaa gagccataat catgaccatt 180
 ctgagcatct gaataatcag gttctctcca agtgcctggc aagttctgat tgcctcagc 240
 actgggatag tctggctccc caaaaaaggg tggagagtta ggttgaatgt cagcgctgg 300
 ataatcaggc tttcccagag agtctgcgta tggattgatt ctaaaacttg tatgttcag 360
 attctttctg gatcctggat gggttcaaat ggctctgggt c 401

<210> 30
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 30
 cctgaactat ttattaaaaa catgaccact cttggctatt gaagatgctg cctgtatttg 60
 agagactgcc atacataata tatgacttcc tagggatctg aaatccataa actaagagaa 120
 actgtgtata gcttacctga acaggaatcc ttactgatat ttatagaaca gttgatttcc 180
 cccatcccca gtttatggat atgctgcttt aaacttggaa gggggagaca ggaagtttta 240
 attgttctga ctaaacttag gagttgagct aggagtgcgt tcatggtttc ttcactaaca 300
 gaggaattat gctttgcact acgtccctcc aagtgaagac agactgtttt agacagactt 360
 tttaaaatgg tgccctacca ttgacacatg cagaaattgg t 401

<210> 31
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 31
 acctccatta atgccaggtg ttcctcctct gatgccagga atgccaccag ttatgccagg 60


```

catgccacct ggattgcatc atcagagaaa atacacccag tcatttttgcg gtgaaaacat 120
aatgatgcca atgggtggaa tgatgccacc tggaccagga ataccacctc tgatgcctgg 180
aatgccacca ggtatgcccc cacctgttcc acgtcctgga attcctccaa tgactcaagc 240
acaggctggt tcagcgccag gtattcttaa tagaccacct gcaccaacag caactgt 297

```

```

<210> 32
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 32
caaacctgga gccaaaaagg acacaaagga ctctcgaccc aaactgcccc agaccctctc 60
cagagggttg ggtgaccaac tcatctggac tcagacatat gaagaagctc tatataaatc 120
caagacaagc aacaaaccct tgatgattat tcatcacttg ggtgagtgcc cacacagtca 180
agcttttaaag aaagtgtttg ctgaaaataa agaaatccag aaattggcag agcagtttgt 240
cctcctcaat ctggtttatg aaacaactga caaacacctt tctcctgatg gccagtatgt 300
ccccaggatt atgtttgttg acccatctct gacagttaga gcccgatatc actggaagat 360
attcaaaccg tctctatgct tacgaacctg cagatacagc t 401

```

```

<210> 33
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 33
agcagaggga caggaatcat tcggccactg ttcagacggg agccacaccc ttctccaatc 60
caagcctggc ccagagaagat cacaagagc caaagaaact ggaggtgtc cagcgctcc 120
aggccagtga gttggttgct acttactttt tctgtgggga agaaattcca taccggagga 180
tgctgaaggc tcagagcttg accctgggac actttaaaga gcagctcagc aaaaagggaa 240
attataggta ttacttcaaa aaagcaagcg atgagtttgc ctgtggagcg gtgtttgagg 300
agatctggga ggatgagacg gtgctcccga tgtatgaagg ccgattctg ggcaaagtgg 360
agcggatcga ttgagccctg ggggtctggct ttggtgaact g 401

```

```

<210> 34
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 34
aacaatggct atgaaggcat tgtcgttgca atcgacccca atgtgccaga agatgaaaca 60
ctcattcaac aaataaagga catggtgacc caggcatctc tgtatctgtt tgaagctaca 120
ggaaagcgat tttatttcaa aaatgttgcc attttgattc ctgaaacatg gaagacaaag 180
gctgactatg tgagaccaa acttgagacc taaaaaatg ctgatgttct ggttgcttga 240
gtctactcct ccaggtaatg atgaacccta cactgagcag atggggcaac tgtggagaga 300
aggggtgaaa ggatcccacc tactcctga ttccattgca ggaaaaaagt tagcttgaat 360
atggaccaca aggtaagggc atttgtccat gaatggggct c 401

```

```

<210> 35
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<223> n = A, T, C or G

catttcttcc	tactagactg	cccccttgat	ccactggcag	aaatgatggc	accaccttgt	60
cttcagggtg	tgctccttca	ttattccaag	gatgcagcat	ctctatgggtg	ccagggtatgg	120
gggtaaagcc	tttggcgccc	tttccgcaat	ggcacatcag	cagtaaaaagt	ggtaccaata	180
gcangaacag	aaagggcaaa	atcatgancg	caattgctgc	gggtcccaaag	cccacatagg	240
aatcatgctg	ngcttccctg	cancgcgtgc	catgcaagac	actnacaaac	tgngantgta	300
aggacctgct	tttcaggaca	actaaaaccc	tgattgnctg	aaatcaggaa	ctgaatttca	360
cttctcccaa	gctttttctc	actttggtgc	aacancacac	t		401

<211> 401

<213> Homo sapiens

cctgctagaa	tactgcgcg	tgtgctttcg	tggaaatgac	agttccttgt	tttttttgtt	60
tctgtttttg	ttttacatta	gtcattggac	cacagccatt	caggaactac	cccctgcccc	120
acaaagaaat	gaacagttgt	agggagaccc	agcagcacct	ttcctccaca	caccttcatt	180
ttgaagttcg	ggtttttgtg	ttaagttaat	ctgtacattc	tgtttgccat	tgttacttgt	240
actatacatc	tgtatatagt	gtacggcaaa	agagtattaa	tccactatct	ctagtgtctg	300
actttaaatc	agtacagtac	ctgtacctgc	acggtcaccc	gctccgtgtg	tcgccctata	360
ttgagggctc	aagctttccc	ttgttttttg	aaaggggttt	a		401

$\langle 211 \rangle$ 401

<213> Homo sapiens

<221> misc feature

<222> 2, 3, 6, 9, 16, 18, 19, 23, 30, 33, 48, 56, 59, 62, 73, 75,
81, 85, 88, 89, 114, 116, 121, 137, 149, 158, 161, 168,
183, 192, 232, 251, 308, 345, 348, 354, 363, 369, 391, 397,
400, 401

<223> n = A, T, C or G

cnncntntgna	atggantnnt	tgnctaaaan	ganttgatga	tgatgaanat	ccctangang	60
antaagcatg	gancntgatc	ntttnctnng	cactccttta	cgacacggaa	acangnatca	120
ncatgatggt	accaganacc	ttatcacchna	cgcgcacnga	nctgactnat	tccaaagagt	180
tgnggttacg	gncatccggt	cattgctcgt	gccattgct	gcagggctga	tnctactggt	240
gcttattatg	ntggccctga	ggatgctcca	caatgaatat	aagcatgctg	catgatcagc	300
ggcaacanat	gctctgccgt	ttgcactaca	tctttcacgg	acacnatntc	gaanacgggc	360
acnttgcana	gttagacttg	gaatgcatgg	ngcggncan	n		401

<211> 401

<213> Homo sapiens

<400> 38

```

aattggctca ctctctcaag gcaagcactg tctcaaggca gtctcaaggc agagatgaca 60
cagcaaaaaa cagaggggga gaaaaaagtc tattattggc ttgtgattta caaaagccaa 120
agtccttttag ataaaaggcc aggagtcgta ccaacataga taccaaattcc aggagaacac 180
agaccagcga taagaggggac gcttcccccatt gaccagacc agcctaaagc ccctgtgggg 240
gcagccagtg gggagctgtc agaccttgga catgggtggc tttgagaatg ggtctgcct 300
tctctccctg accagttggg atagacacct gactggaatc cttgacactg gcaggtgttt 360
ctatgaacag agaggactgt gcctgtcttc ctgaatccca a 401

```

```

<210> 39
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 209
<223> n = A,T,C or G

```

```

<400> 39
tctggtangg agcaattcta ttatttggca ttgcatggct gggttgaatt aaaacaggga 60
gtgagaacag gtgagtctag aagtccaact ctgaaaagga ccactgtaca tttgaacaca 120
cggctgtgtt aaagatgctg ctaatgtcag tcaactgggtg cactaaagga tctcttattt 180
tatgtaaaac gttgggaatg acaagatana actgatactc tggtaagtta ccctctgaag 240
ctacttcttg tgaaatacta atgacagcat catcctgcca agcgaagag gcaggcataa 300
gcaaggacaa attaaaaggg ggtaagagcc ttatcatgat gaggagtctt gttttgacat 360
cttgggaaaa gctgtccata gtgtgaagtc gtcaatttct c 401

```

```

<210> 40
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 40
tctggtcacc caactcttgt ggaagagggg aattgagatc gagtactgaa tatctggcag 60
agaggctgga atccttcagc ccagagagccc agggaccact ccagtagatg cagagagggg 120
cctgcccagg ggtcagggca gtgggtatca ctggtgacat caagaatatc agggctgggg 180
aggcatcttt gtttcctggg gccctcctca aagttgctga cactttgggg acgggaaggg 240
gtagaagtag ggctgctcct tttggagctg gagggaaatag acctggagac agagttagg 300
cagtcgggct gtccagggtc taagcatcac agcttctgca ctgggctctg aggagattct 360
cagccagagg atcccagcct cctcctccct caaatgtcaa g 401

```

```

<210> 41
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 170, 317, 334, 364
<223> n = A,T,C or G

```

```

<400> 41
ctggactaaa aatgtccact atggggtgca ctctacagtt tttgaaatgc taggaggcag 60
aaggggcaga gagtaaaaaa catgacctgg tagaaggaag agaggcaaag gaaactaggt 120

```

```

ggggaggatc aattagagag gaggcacctg ggatccacct tcttccttan gtcccctcct 180
ccatcagcaa aggagcactt ctctaatacat gccctcccgga agactggctg ggagaagggtt 240
taaaaacaaa aaatccagga gtaagagcct taggtcagtt tgaaattgga gacaaactgt 300
ctggcaaagg gtgcganagg gagcttgtgc tcangagtcc agcccgtcca gcctcgggggt 360
gtangtttct gaagtgtgcc attggggcct caccttctct g 401

```

```

<210> 42
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<400> 42
ggttcgacaa atccccaaaa atggcaaatt aagccctgtg acaaaataag ttattggatc 60
atacagaaat agcccaaatac tggaaatttt gaattaaaaat tgtaatcctg taaaacaagt 120
tttgggggtga atggattttct ttaataccaa taatatTTTT aattcccacc acagatggat 180
ttgctgaata tgctaattgct gtgaatgaga aaacaatttt ggggtaggta taccacaag 240
taatctgatg acaaaataaa ccacagactg atgtcaaattg gacaaaaaac tgaaaatatg 300
ctgtgagaaa 310

```

```

<210> 43
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 43
aggtcactta cacttgtgac cagtgtgggg cagagaccta ccagccgatc cagtctccca 60
ctttcatgcc tctgatcatg tgcccaagcc aggagtgcc aaccaaccgc tcaggagggc 120
ggctgtatct gcagacacgg ggctccagat tcatcaaatt ccaggagatg aagatgcaag 180
aacatagtga tcagggtgcc gtgggaaata tccctcgtag tatcacggtg ctggtagaag 240
gagagaacac aaggattgcc cagcctggag accacgtcag cgtcactggg attttcttgc 300
caatcctgcg cactgggttc cgacagggtg tacagggttt actctcagaa acctacctgg 360
aagcccatcg gattgtgaag atgaacaaga gtgaggatga t 401

```

```

<210> 44
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 44
atccctgtaa gtctattaaa tgtaaataat acatacttta caacttctct tagtcggccc 60
ttggcagatt aaatctttgc aaaattccat atgtgctatt gaaaaatgaa ataaaacctc 120
agatgtctga attcttattt caaatacagt tatataatta ttttaaatta caatatacaa 180
tttctgttaa atacaactgt taagggattc tgagaacaat tataagatta taataatata 240
tacaaactaa cttctgaaat gacatgggtt gtttccttcc caccctccta ccctctcaaa 300
gagtttttgc atttgctgtt cctgggttgca aaaggcaaaa gaaaatctaa aaatagtctg 360
tgtgtgtcca cgacatgctc gctcctttga gaatctcaaa c 401

```

```

<210> 45
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 212, 224

<223> n = A,T,C or G

<400> 45

```
gtgcctgctg cctggcagcc tggccctgcc gctgcctcag gaggcgggag gcatgagtga 60
gctacagtgg gaacaggctc aggactatct caagagattt tatctctatg actcagaaac 120
aaaaaatgcc aacagtttag aagccaaact caaggagatg caaaaaattc tttggcctac 180
ctatactgga atggtaaact cccgcgtcat anaaataatg caanaagccc agatgtggag 240
tgccagatgt tgcagaatac tcactatttc caaatagccc aaaatggact tccaaagtgg 300
tcacctacag gatcgatatca tatactcgag acttaccgca tattacagtg gatcgattag 360
tgtcaaaggc tttaaacaatg tggggcaaaag agatccccct g 401
```

<210> 46

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 70, 182

<223> n = A,T,C or G

<400> 46

```
gtcagaattg tctttctgaa aggaagcact cggaatcctt ccgaactttc caagtccatc 60
catgattcan agatactgcc ttctctctct ctgggatttt atgtgtttct gatagtgaat 120
tgttgatgta tttgctactt tgcttctttt ctctttcaag acttgatcat tttatatgct 180
gnttgagaaa aaaaagaact tttggtagca aggaggtttc aagaaatgat tttggatttt 240
ctgctgcgga atttctcggc acctacctgt agtatggggc acttggtttg gttgcagagt 300
aagaagggtg aagaatgagc tgtacttggg taagcagttg aaaccttttt tgagcaggat 360
ctgtaaaagc ataattgaat ttgtttcacc cccgtggatt c 401
```

<210> 47

<211> 401

<212> DNA

<213> Homo sapiens

<400> 47

```
ggtctgcagc aatgcacttc aaccatacat actgcttcca ctagctaata ccaaatgcag 60
gttctcagat ccagacaaat ggaggaaaag aacattttatg cttccgtttc agaaagccaa 120
gtcgtagttt tggcccttcc tttctctaaa gtttattccc aaaaacaggt agcattcctg 180
attgggcaga gaagaggata ttttcagccc acatctgctg caggatgtgc attttctccc 240
atcttcactg tgactagtaa agatctcacc acttctcttt ggaatttcca actttgcttg 300
tgattgaatg tcacttcgtg aatttgtatt atgtcagatc acttggcatt gctcttccat 360
atgcatcaag ttgccaggca ctaaacccaa tgttcatgaa c 401
```

<210> 48

<211> 430

<212> DNA

<213> Homo sapiens

<400> 48

```
acataacttg taaacttttt ctgcttgggg gctgtaacag acagaagagt aaagactaca 60
aggattttct gaagatgctt caatgaaaat catcatttcc tctttagtca tccaagtct 120
tggtttgaaa aacttgggca tggacttata cagaccttga accaccactg acttatcatt 180
```

```

gggtggcaga ccttgaaacc aagctctctg tgttacttct gaaagtgcac caattctgat 240
ttggctaaga acagaagaca aatactggga tcgtgattct gtgttatact ctagccacag 300
catagcagct tctcgaacgg ttcttccctt ttctacattt aaattgtcac tactgagaat 360
atctatcagt aggtcatgtg acagacctgc cccggggccg gcccgtcga tgcttgccga 420
atatcatggt                                     430

```

```

<210> 49
<211> 57
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 17, 44, 49
<223> n = A,T,C or G

```

```

<400> 49
ggtattaaca atatcangca ctcattcttc ccctcttatg aaanggatna attttta 57

```

```

<210> 50
<211> 327
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 10, 20, 22, 25, 28, 30, 37, 40, 41, 42, 51, 58, 59, 68,
69, 70, 75, 76, 79, 91, 95, 108, 109, 111, 142, 146, 180,
200, 201, 213, 218, 233, 235, 247, 265, 290, 299, 306
<223> n = A,T,C or G

```

```

<400> 50
gatggnggtn tccacaagan tnaangtnon tattaantan nncttgtaga nccacttnna 60
ttaattgnnn tatgnntgnc cttctgggtg ntgtngaagc ttcatatnnt ntttggacat 120
cattacacgt cttagctctt tnaagnacaa ctttaatgct atatgaattt tgccattttt 180
gctaacactg gtagtctccn ngcatccacc atnccacntg gaattattta ttncnttcat 240
attaatnttt tgtttaccaa atctnacttg acccgaacga aactttctgn gtattttang 300
gccccnccat tcttactttt caagcct                                     327

```

```

<210> 51
<211> 236
<212> DNA
<213> Homo sapiens

```

```

<400> 51
cgtctcgaag aagcgctgca ggccgatgat ggactgcacg tctgccttgt cctcagttaa 60
cttggtgaat tgcttgaaca tgccggccac atcctgggca aactcctgtg gggagctgta 120
gggaggtgac aacttctcct ggaggcgggc acggatcagg gtcagatcca gggtgccacc 180
gggctggtcc agggagaagg tggagtcgta gccagacctg cccgggcggc cgctcg 236

```

```

<210> 52
<211> 291
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> 168, 197, 202, 209, 218, 257, 271, 287
 <223> n = A,T,C or G

<400> 52
 ctcacatcct ggggccggct gtagagctgc accatgggtgc tgagcgcccc ctccagctcc 60
 ttgtagatgt aaaggacggc gaaggagctg tagtctgtgt ccacgatgcg cacgtccagg 120
 tagcccaagg ccgggactct gaagttgtcc ctcgagagccc accttcangt actcgggcat 180
 ccacctgggt acagccnttc gncctcggna actccatntg gactttacag gccgccctcc 240
 tctgtggggc tgatggncct tgcaggacat nggaacacgg gagctcnctt t 291

<210> 53
 <211> 95
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 60, 73, 76, 92
 <223> n = A,T,C or G

<400> 53
 gtctgtgcag tttctgacac ttgttggtga acatggntaa atacaatggg tatcgctgan 60
 cactaagttg tanaanttaa caaatgtgct gnttg 95

<210> 54
 <211> 66
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 8, 11, 13, 26, 27, 35, 38, 43, 47, 57
 <223> n = A,T,C or G

<400> 54
 cctnaatnat ntnaatggta tcaatnnccc tgaangangg gancggngga agccggnttt 60
 gtccgg 66

<210> 55
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25, 223, 241, 254, 259
 <223> n = A,T,C or G

<400> 55
 atctttcttc tcagtcctt ggccntgttg agtctatctg gtaacactgg agctgactcc 60
 ctgggaagag aggccaaatg ttacaatgaa cttaatggat gcaccaagat atatgacct 120

```
gtctgtggga ctgatggaaa tacttatccc aatgaatgcc gtgttatgtt tttgaaaatc 180
ggaaacgcca gacttctatc ctcatcmeta aatctgggcc ttntcgmeta ccagggtttt 240
naaaatccca ttcnnggtcnc cggcgc 265
```

```
<210> 56
<211> 420
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 85, 164, 198, 228, 257, 261, 283, 298, 326, 385, 390
<223> n = A,T,C or G
```

```
<400> 56
gagcggccgc ccgggcaggt cctcgcggtg acctgatggg atttcaaac cttggttctc 60
agcaaggccc agatttttga atgangatag aagtctggcg ttcccgattt tcaaacata 120
acacgcattc attgggataa gtatttccat cagtcccaca gacnggggtca tatactcttg 180
gtgcatccat taagttcatt tgtaacatt tgggcctctc tttcccangg gaattcagct 240
cccagttggt taccanatt naactccacc ggggccaaag gcncttgaaa aaaaaanaa 300
ttccttggtt accttccttg ggcttnaagt tctggcggtc aaaagttcaa tttgaaaact 360
gcaccgcact taccacgtct cttnnagaan cctgggggaca cctcggccgc gaccacgcta 420
```

```
<210> 57
<211> 170
<212> DNA
<213> Homo sapiens
```

```
<400> 57
gaagcggagt tgcagcgctt ggtggccgcc gagcagcaga aggcgcagtt tactgcacag 60
gtgcatcact tcatggagtt atgttgggat aaatgtgtgg agaagccagg gaatcgctta 120
gactctcgca ctgaaaattg tctctccaga cctcggccgc gaccacgcta 170
```

```
<210> 58
<211> 193
<212> DNA
<213> Homo sapiens
```

```
<400> 58
attttcagtg cgagagtcta ggcgattccc tggtttctcc acacatttat cccaacataa 60
ctccatgaag tgatgcacct gtgcagtaaa ctgcgccttc tgctgctcgg cggccaccag 120
gcgctgcaac tccgcttcac cggttcgcc cagctccgcc attgttcgcc acctgcccg 180
gcggccgctc gaa 193
```

```
<210> 59
<211> 229
<212> DNA
<213> Homo sapiens
```

```
<400> 59
cgcaactctc gagcatttat atacaatagc aaatcatcca gtgtgttgta cagtctataa 60
tactccaaca gtctcccatc tgtattcaat ggcgccacc ccaacagtc tttgtttgga 120
tgctggggag agtaatccct accccaagca ccatatagat aagaaaacc tctccagttg 180
```

J00530.1

agctgaacca cagacggttt gctgatacct gcccgggagg ccgctcgaa 229

<210> 60

<211> 340

<212> DNA

<213> Homo sapiens

<400> 60

tcgagcggcc gcccgggcag gtcctctaaa gatcaaaaca cccctgtcgt ccaccctcct 60
 cccactccag ggaagctgtg gtcattggtg tgtggtgaac atcagcaaac cgtctgtggt 120
 tcagctcaac tggagagggg tttcttatct atatggtgct tggggtaggg attactctcc 180
 ccagcatcca aacaaaggac tgtattgggt ggcgccattg aatacagatg ggaaactgtt 240
 ggagtattat aaactggtac aacacactgg atgatttgct attgtatata aatgctcgag 300
 aattgcggat cacctatgga cctcggccgc gaccacgctg 340

<210> 61

<211> 179

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 16, 76, 96, 110, 112, 122, 138, 140, 143, 155, 161, 163,
 175, 178

<223> n = A,T,C or G

<400> 61

tttttgtgac ggacgnttgg agtacatgtc ccaggatcac atccagcagc tagagtggct 60
 gggacaagct ggcgngggcc aagcactgtt gaaacnatag gggctctgggn gnactcgggt 120
 tnaagtgggt ggtccgantt ttnataacct tgtcngaacc nancatctcg gttgncang 179

<210> 62

<211> 78

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 51, 72

<223> n = A,T,C or G

<400> 62

agggcggttcg taacgggaat gccgaagcgt gggaaaaagg gagcgggtggc nggaagacgg 60
 ggatgagctt angacaga 78

<210> 63

<211> 410

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 48, 95, 182, 290, 314, 350, 365, 380

<223> n = A,T,C or G

<400> 63
cccagttact tggggaggct gaggcaggga gaatcctttg aacccggnng gtgggaggtt 60
gcagtgagcc cgagatagca ccattgcact tccancatgg ggtggacaga gtgagactct 120
atctcaaaaa aaaagaaaag aaaaggaaa agattagatt aagattaagt acctacttcc 180
tntcccattt caagtccctga aaatagagga tcagaaatgt tgaggaattc tttaggatag 240
aaaggagat gggattttac ttatggggaa agaccgcaaa taaagactgn aacttaacca 300
cattcccaa gtgnaagggtg ttaccaaga agtaggaacc cttttggctn ttaccttacc 360
ttcngaaaa aaacttattn cttaaaatgg aaacccttaa agcccgggca 410

<210> 64
<211> 199
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 153, 156, 158, 162, 170, 171, 184, 192
<223> n = A,T,C or G

<400> 64
cttgtttctca aaaagggtcaa agggagcccg acgaggaata aatagcaatg ccctgaattc 60
caactgacct tctacagaaa agtgcttgac tgccaagtgg tcttcccagt cattagttag 120
gctctttag aattctccat actcctcttg ggngangnca tnagggtttn nggcccacaa 180
aggntgggcc tngttaagt 199

<210> 65
<211> 125
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 115, 118, 120
<223> n = A,T,C or G

<400> 65
agcggtagac ttctgtcctg gcatcatcat tcattgtagt atggtcaata ggtgccatga 60
aactcagtag cttgctaagg acatgaaacc gaagtttcct gcctttgctg gcctngtnng 120
gggta 125

<210> 66
<211> 204
<212> DNA
<213> Homo sapiens

<400> 66
attcagaatt ctggcatcgg tattttctata aagtccatca gttagagcag gagcaggccc 60
ggagggacgc cctgaagcag cgggcggaac agagcatctc tgaagagccc ggctgggagg 120
aggaggaaga ggagctcatg ggcatttcac ccatatctcc aaaagaggca aaggttcctg 180
tggacctcgg ccgcgaccac gcta 204

<210> 67
<211> 383

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 32, 46, 59, 132, 190, 234, 264, 272
<223> n = A,T,C or G

<400> 67
tcagggcctc caggcagcca gttttgcagg anattcagca cctagngtct tcctgcctna 60
cgctcccaag aacctgctcc tgcaggggga acatcagaac tcgtccttga tgtcaaaatg 120
gggctgggtct tnaggcttga agtccagggtt agggctgcca tcctcattga gaattctccg 180
ggcagtgtan ccgacgatgg ggtatttggc tttgtacact ttggtgaaaa cctnatccag 240
ggcctccagt tccttggccg tganacccgt antgtcatgg gtgagggtctg caggatccaa 300
ggacatcttg gctacccctc tagtggagtc cttccccgctc aaggcattgt aaggggctcc 360
tcgtccataa aactcctttt cgg 383

<210> 68
<211> 99
<212> DNA
<213> Homo sapiens

<400> 68
tcacatctcc tttttttttt aactttttca aatttttgtg ttaaataagaa ggctaaaggg 60
ttagatttaa gtttctgcta cattgaccct atttaccta 99

<210> 69
<211> 37
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 16, 21, 24, 27, 29
<223> n = A,T,C or G

<400> 69
gagaaggacn tacggncttg ntantanang aatctcc 37

<210> 70
<211> 222
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 196
<223> n = A,T,C or G

<400> 70
gtgggtcatt tttgctgtca ccagcaacgt tgccacgacg aacatccttg acagacacat 60
tcttgacatt gaagcccaca ttgtccccag gaagagcttc actcaaagct tcatggcgca 120
tttcgacaga ttttacttcc gttgtaacgt tgactggagc aaaggtgacc accataccgg 180
gtttgagaac acccantcac ctgccccggg cggccgctcg aa 222

<210> 71
 <211> 428
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 281, 308, 364, 376, 383, 397, 413, 420
 <223> n = A,T,C or G

<400> 71
 caggagtatt ttgtagaaaa gccagaagag cattagtaga tgtatggaaa tatacggtag 60
 ggcacacgct gacagtactt ttcccaagcc acgccgtatt tcttcttaca gtggtactcg 120
 tcacgagctt ctccgtggac aagcaacatg gtgaaataaa ttatgtagaa ataaggcaga 180
 atgtggttaa aaccacatgg gagggaccac gccaaaggcca tgatgagatc acccaagtaa 240
 ttgggggtggc gaacaaagcc ccaccatcca gaaactagaa naatttttcc cgttgaaata 300
 tgaatggnnt ttaaatgtgc aagcttttga tcactgggaa ttttcccgaa tgcctttttc 360
 tganaattgc accttnggaa gantccttac cccaagnttc agaccattat ttnaaaagcn 420
 ttggaact 428

<210> 72
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 218, 236, 247, 256
 <223> n = A,T,C or G

<400> 72
 gaataaagag cttactggaa tccagcaggg ttttctgccc aaggatttgc aagctgaagc 60
 tctctgcaaa cttgatagga gagtaaaaag ccacaataga gcagtttatg aagatcttgg 120
 aggagattga cacacttgat cctgccagaa aatttcaaag acagtagatt gaaaaggaaa 180
 ggcttttgta aaaaaaggtt caggcattcc tagccgantg tgacacagtg gacanaaca 240
 tctgcangag actgancggc tgca 264

<210> 73
 <211> 442
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 249, 283, 313, 385, 390, 407
 <223> n = A,T,C or G

<400> 73
 ggcgaatccg gcgggtatca gagccatcag aaccgccacc atgacggtgg gcaagagcag 60
 caagatgctg cagcatattg attacaggat gaggtgcac ctgcaggacg gccggtattt 120
 cattggcacc ttcaaggctt ttgacaagca catgaatttg atcctctgtg actgtgatga 180
 gttcagaaaag atcaagccaa agaacttcaa acaagcagaa agggaagaga agcgagtcct 240
 cggctctgng ctgctgcaa gggagaatct ggtctcaatg acngtagaag gaccttcttc 300

```

caaagatact ggnattgctc gagttccact tgctggaact tcccggggcc caaggatcgc 360
aaggcttctg gcaaaagaaa tccanacttn ggccgggacc acctaancca attcacacac 420
tggcgcccggt actagtggat cc                                     442

```

```

<210> 74
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 167, 268
<223> n = A,T,C or G

```

```

<400> 74
ggtagcagcg tctccagagc ctgatctggg gtcccagata cccaggcagc agcagccctg 60
gaggtaaagg gcaagctccc caatgtgagg ggagacccca ttcctgggtca gccaggcttt 120
cagaggagat agcagggtcga gggagccaac gaagaagaga ctgccancag ggggaaggact 180
gtcccgccaa ggacagaact gattcagggg ggtcaatgct cctctagaga agagccacac 240
agaactgggg ggtccaggaa ccatgaanct tggctgtggt ctaaggagcc aggaatctgg 300
acagtgttct gggtcatacc aggattctgg aattgta                                     337

```

```

<210> 75
<211> 588
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 444, 495, 531, 562
<223> n = A,T,C or G

```

```

<400> 75
catgatgagt tctgagctac ggaggaaccc tcatttcctc aaaagtaatt tattttttaca 60
gcttctggtt tcacatgaaa ttgtttgctc tactgagact gttactacaa acttttttaag 120
acatgaaaag gcgtaatgaa aaccatcccg tccccattcc tcctcctctc tgagggactg 180
gaggggaagc gtgcttctga ggaacaactc taattagtac acttgtgttt gtagatttac 240
actttgtatt atgtattaac atggcgtggt tattttttgta tttttctctg gttgggagta 300
tgatatgaag gatcaagatc ctcaactcac acatgtagac aaacattagc tctttactct 360
ttctcaaccc cttttatgat ttttaataatt ctcaactaac taattttgta agcctgagat 420
caataagaaa tgttcaggag agangaaaga aaaaaaatat atgttcccca tttatattta 480
gagagagacc cttantcttg cctgcaaaaa gtccaccttt catagtagta ngggccacat 540
attacattca gttgctatag gncagcactg aactgcatta cctgggca                                     588

```

```

<210> 76
<211> 196
<212> DNA
<213> Homo sapiens

```

```

<400> 76
gcggtatcac agcctggccc ccatgtacta tcggggggcc caggctgcca tcgtggtcta 60
tgacatcacc aacacagata catttgcacg ggccaagaac tgggtgaagg agctacagag 120
gcaggccagc cccaacatcg tcattgcact cgcgggtaac aaggcagacc tggacctgcc 180
cgggcggccg ctcgaa                                     196

```

<400> 79
ctgtatgacc agttttttcca tctccttcac ttctaccttg atcagctcga agtccagttc 60
agtgtaagaa atgggtatcct tctccatgat gtcaattcgg acagtttaggt ttaacagttt 120

```

cttttcatac acactaatta attggacata ttccctcact ttanaaaagt ctttctcaaa 180
cttctganaa aagaacatga actgtgaatt ccaagcggtc ccactctgtc cacgggaaaa 240
ggtggtgtct ggcagggaag cagaacactg gcaggtccac ggtcatccac ggagccggtg 300
aaattgggaa aacaactggg acacagaacc tccgctgcct aagctgcggn tgggagcttg 360
gaacccgacc tggaactgga

```

```

<210> 80
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 42, 130, 131, 134, 200, 210, 226, 243, 257, 273, 278, 295,
303, 316, 337, 344, 357, 360
<223> n = A,T,C or G

```

```

<400> 80
tcgagcggcc gcccgggcag gtcctcagag agctgtttgt tncgcttctt caaaaaactcc 60
tattctccac ttctgctaaa ggactggatg acatcaattg tgatagcaat atttgtgggt 120
gttctgtcan ncancatcgc actcctgaac aaagtagatg ttggattgga tcagtctctt 180
tccacccaga tgactcctan atgggtggatn atttcaaata catcantcag tacctgcatg 240
cgnggtccgc ctgtgttctt tgtcctgcag gangggcnct actacacttc ttccnagggg 300
canaacatgg tgtgcngcgg ccatgggctg gcaacantga ttcnctgctg caccanatn 360

```

```

<210> 81
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 121, 132, 191, 211, 224, 312, 342, 354, 360, 407, 412, 427
<223> n = A,T,C or G

```

```

<400> 81
acgtggtccg gcgagtctga cctgcagata tgaactcctt gggaaaccta cattctgcct 60
cagacatact gggggcaaat ggctttaaaa gtctggctca gggagccaag attacagaaa 120
nccgttgagt cnccatacat ggacactgac aaagggaactg aagatatcca aacaagccct 180
cctgggtccc ngcctgcata aagatcggga ncggaacggt accngacgtc tgtggtcagg 240
ggttgtggaa aattggaaaa aaccagtcct gccacattg acagggaagc ctcaacggaa 300
attgaacaga tngtcttata accagtctcc cctcctggat cntgtctcgg ctcnngggan 360
tcagtgatca gtcctttcag gtggaagaag caaagaagat caacaanaag cngatcctct 420
cacctgntac cagcatatgg
440

```

```

<210> 82
<211> 264
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 18, 54, 130, 137, 162, 175, 184, 190, 192, 202, 206, 213,

```

218, 241, 260

<223> n = A,T,C or G

<400> 82

```
agcgtgggtcg cggccgangt cctgacattc ctgccttctt atattaatta tacnaataaa 60
acaaaatagt gttgaagtgt tggagcggcg aaaatttttg gggggtggta tggacagaga 120
atgggcgatn ttctcanggc tgcttcaagt gggattgggg cngcgtggga tcatncagtg 180
gganagattn cnctgaccgg antctnttgg tanggatnat cttgtgggga tgtgcaagag 240
ncattcgtct cctgaatgan tggt                                     264
```

<210> 83

<211> 410

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 2, 18, 169, 209, 245, 263, 265, 284, 378

<223> n = A,T,C or G

<400> 83

```
ancgtgggtcg cggccgangt ccacagttgt gggagagcca gccattgtgg gggcagctcc 60
acaggttaaga ctctgtgtcct gagcagcgca catcatccag gacaatgggt cctgagccct 120
gaccaaaccg ggcatttcct ggggctgaca tggcccagcc acagcccant tgctgcaga 180
cgaaattggc atcattgggtg tcccagtant catcacacac ggtgccccag gaacctccgg 240
tatangaact ccactcggcc tcnanacctg tcgcctccat tccncagcct cagggggcaa 300
actgggattc agatccttct gtgggtacag gtgggtgatat cctgacaggc caactttctg 360
gcctgagtgt tgactgancg tgggcagacc tgcccgggcy gccgctcgaa 410
```

<210> 84

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 61, 81, 82, 90, 98, 111, 153, 182, 184, 187, 189, 198, 210, 211, 212, 238, 262, 277, 279, 289, 295, 299, 318, 320

<223> n = A,T,C or G

<400> 84

```
tcgaacggcc gcccgggcag gtctgccccg ggtgtatcca tttgccgccg atctctatca 60
naaggagctg gctaccctgc nncgacgaan tcctgaanat aatctcacc nccagatct 120
ctctgtcgca atggagatgt cgtcatcggt ggnctgac acagggcatt ggactcagag 180
anangtnanc acagtgtnga agcgattgan nnagttcagt tgctgggtctt acccgatntt 240
ggaaggaagg aaaacgtgtt angacgtatc tcgatgnant tgaccaaanc tgaangctnc 300
agggggcatc gcaaaganan                                     320
```

<210> 85

<211> 218

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> 117, 120, 152, 155, 193, 194
 <223> n = A,T,C or G

<400> 85
 tcgagcggcc gcccgggcag gtctgctgcc cgtgctgggtg ccattgcccc atgtgaagtc 60
 actgtgccag ccagagaacac tgggtctcggg cccgagaaga ctcttttctc caggctntan 120
 gtatcaccac taaaatctcc aggggcacca tnganatcct ggggtgtccgc aatgttgcca 180
 atgtctgtcc gcnattggc tacccaactg ttgcatca 218

<210> 86
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25, 183, 193, 204, 225, 240
 <223> n = A,T,C or G

<400> 86
 tcgacttctt gtgaagggtt tgganaaata tgtatcagtt cgttttatctt gggatttcaa 60
 taatatcctt ggtgataatg ctgactccat ggcttctgac cccaaaaatt gaccctgctg 120
 ccactgggtt tagccctgag attgatcttt gttagccacga ttgtttcctc gtcctctgaa 180
 gtntctgggtt tanttccctc tgtngggcat tccccctctg tgtanttccc tctgtttgan 240
 taactaccac ggccaggaaa aacaggggca cgaagggtatg gat 283

<210> 87
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 66, 81, 89, 113, 120, 135, 148, 161
 <223> n = A,T,C or G

<400> 87
 agcgtgggtc cggccgatgt ctttctgtgt aagtgcataa cactccacat acttgacatc 60
 cttcangtca cgggccagct nttcagcant ctctggagtg ataggctact gtntgttctn 120
 ggcaagtgtc tcaanaatac aggggtctnc tctgagatga ntttcagtcc cgaaccctc 179

<210> 88
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27, 30, 75, 106, 198, 216, 294, 349
 <223> n = A,T,C or G

<400> 88
 tcgagcggcc gcccgggcag gtcctancan agaatcacca aatttatgga gagttaacag 60

[illegible]

```
<220>  
<221> misc_feature  
<222> 12, 56, 58, 61, 78, 82, 107, 116, 123, 126  
<223> n = A,T,C or G
```

```
<220>
<221> misc_feature
<222> 9, 33, 70, 105, 129, 135, 136, 154, 180, 190, 213, 232, 235,
286, 292, 293, 305, 335, 341, 363, 372, 400, 418, 422, 425,
472
<223> n = A,T,C or G
```

<400> 94							
tcgagcggnc	gcccgggcag	ggtctgatgt	cantcacaac	ttgaagggat	gccaatgatg	60	
taccaatcen	atgtgaaatc	tctcctctta	tctcctatgc	tgganaaggg	attacaaagt	120	
tatgtggcng	ataannaatt	ccatgcacct	ctantcatcg	atgagaatgg	agttcatgan	180	
ctggtgaacn	atggtatctg	aaccggatac	cangttttgt	ttgccacgat	angantagct	240	
tttatttttg	atagaccaac	tgtgaaccta	ccacacgtct	tggacnactg	anntctaact	300	
atccncaggg	ttttattttg	cttgttgaac	tcttnacagct	nttgcaaact	tcccaagatc	360	
canatgactg	antttcagat	agcattttta	tgattcccan	ctcattgaag	gtcttatnta	420	
tntcnttttt	tccaagccaa	ggagaccatt	ggacctcggc	cgcgaccacc	tn	472	

```
<210> 95
<211> 309
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 97, 117, 139, 173, 184, 193, 206, 230, 236, 239, 242, 265,
280, 299
<223> n = A,T,C or G
```

```
<400> 95
tcgagcggcc gccgggcag agtgctcgagc cagcgtcgcc gcgatggtgt tgttgagag 60
cgagcagttc ctgacggaac tgaccagact tttccanaag tgccggacgt cgggcancgt 120
ctatatcacc ttgaagaant atgacggtcg aaccaaacc attccaaaga aangtactgt 180
gganggcttt ganccgcgag acaacnagt tctgttaaga actaccgatn ggaaanaana 240
anatcagcac tgtgggtgag ctccnaggga agttaataan tttcggatgg gcttattcna 300
acctcctta                                     309
```

```
<210> 96
<211> 371
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 327  
<223> n = A,T,C or G
```

<400>	96						
tcgagcggcc	gcccgggcag	gtccaccact	cacctactcc	ccgtctctat	agatttgccct	60	
gttctgggca	gttctcagca	atggaatcct	actgtgtatc	tttttgtgac	tggttcttta	120	
actcagcatc	acattttcaa	ggttcaccca	tgctgcagcc	tggctccgta	ctggtgacag	180	
tacttcattt	ctctctccct	tttgttcaga	ccaagggtctc	cctctgtccc	caaggctaaa	240	
gtgcagttgg	tgtgatcatg	gctcactgca	gcctcaaact	cctggactca	aacagtcctc	300	
ccatctcagc	ctcccaaagt	gctgatntta	taagttgcaa	gccctgcacc	cagcctgtat	360	
ctccagtttg	t					371	

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<210> 97
<211> 430
<212> DNA
<213> Homo sapiens
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<220>
 <221> misc_feature
 <222> 5, 25, 30, 34, 41, 42, 43, 44, 46, 60, 97, 116, 141, 145,
 158, 183, 184, 226, 232, 243, 245, 257, 271, 288, 298, 300,
 303, 308, 318, 325, 329, 354, 390, 428
 <223> n = A,T,C or G

<400> 97
 tcgancggcc gcccgggcag gttntttttt tttntttttt nnnngntagt atttaaagan 60
 atttattaaa tcatcttatt accaaaatgg aaacatnttc caactagaaa catgcnacca 120
 tcatcttccc cagtccagtc ncaangtcca atatcttntct tgctcttgca gataaaaagt 180
 tcnnattttt ataccctact ttactccccc ccaaaatttt aattcngtcc tnccttaaaa 240
 ttncnccggg taacaantta ccaaaatggc naaccaatta ttttaaanaa aagttgcncn 300
 ttnaaaangg aaactttntg gcaanttanc ctcttttccc tccccacccc ccantttaag 360
 gggaaaacaa tggcactttg ctcttgcttn aaccctaaaat tgtcttccaa aaactattaa 420
 aaatgttnaa 430

<210> 98
 <211> 307
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 15, 19, 20, 25, 28, 43, 70, 75, 81, 102, 139, 162, 203,
 259, 260, 283, 295
 <223> n = A,T,C or G

<400> 98
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 attgggacan ggaanacaat ntggttttca gggaggccac anatttgag aaacggatga 120
 attctccttt attccgaant cagctccttg gtctccgtag anggtgatct tgaaattctc 180
 ctgttttgaa aactttcttg aanaaacctt acctgctggt tgtatttggt ctcccactcg 240
 gacaagtact cgttatccnn ggtactctta atgtgccac gtnaactccc cgggntggca 300
 actggaa 307

<210> 99
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 19, 24, 25, 38, 46, 59, 61, 66, 69, 81, 83, 88, 96, 98,
 104, 106, 115, 126, 132, 135, 146, 152, 160, 165, 172, 173,
 187, 188, 189, 192, 202, 203
 <223> n = A,T,C or G

<400> 99
 gtccnngacc gatgttgca aganntttct tgggccanta gggtcnaaaa aatgataanc 60
 naggtntanc acgtgaagat ntntatanag tcttantnaa aacnctaga tctgnatgac 120
 gataantcga anacnggggg aggggntgag gngaggtggn gtganggaag anntgttgat 180
 aaaagannna gntgataaga annagac 207

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<210> 103
<211> 189
<212> DNA
<213> Homo sapiens
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<220>
 <221> misc_feature
 <222> 72, 138, 156
 <223> n = A,T,C or G

<400> 103
 agcgtggtcg cgcccggaagt ctgcagcctg ggactgaccg ggaagctctg attatattacc 60
 caccacaggt angttgtgtt ctgaatctca agttcacagg ttaaggctac agcatcctca 120
 tcctccacgg gggtggantt gttgctggtg atgaanggtt tggggtggct ctgcataact 180
 gttgatctc 189

<210> 104
 <211> 181
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 38, 82, 83, 97
 <223> n = A,T,C or G

<400> 104
 tcgagcggcc gcccgggcag gtccaggtct ccaccaangc accaccgtgg gaagctggta 60
 attgatgccc accttgaagc cnntggggca ccatccncca actggatgct gcgcttggtt 120
 ttgatgggtg caatggcaca ttgactcttt tgggaaccac ttcaccacgg tacaacaggc 180
 a 181

<210> 105
 <211> 327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 80, 116, 167, 175, 182, 194, 210, 277
 <223> n = A,T,C or G

<400> 105
 tcgagcggcc gcccgggcag gtcttctgtg gagtctgcgt gggcatcgtg ggcagtgggg 60
 ctgccctggc cgatgctcan aaccccagcc tctttgtaaa gattctcatc gtgganatct 120
 ttggcagcgc cattggcctc tttgggggtca tcgtcgcaat tcttcanacc tccanaatga 180
 anatgggtga ctanataata tgtgtgggtn gggccgtgcc tcacttttat ttattgctgg 240
 ttttctctgg acagaactcg ggcgcgaaca cgcttanccg aattccaaca cactggcggg 300
 cgttactagt ggatccgagc tcggtac 327

<210> 106
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 18, 73, 96, 117, 129, 161, 195, 219, 247, 250, 255, 257
 <223> n = A,T,C or G

<400> 106

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agtcctgaac ttinatctaat aaaattattg tacacnacat ttacattaga aaaaganagc 120
tgggtgtang aaaccgggcc tgggtgttccc ttttaagcgaa ngtgggtcca cagttggggc 180
atcgtcgctt cctcnaagca aaaacgccaa tgaacccna agggggaaaa aggaatgaag 240
gaactgnccn gggangnccg ctccgaaa 268
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<210> 107

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 70, 167, 179, 184, 185, 196, 198, 215, 216, 221, 235, 286,
288, 299, 312, 321, 335, 344

<223> n = A,T,C or G

<400> 107

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tcgagcggcc gcccgggcag gtggccaggc catgttatgg gatctcaacg aaggcaaaca 60
cctttacacn ctagatgggtg gggacatcat caacgccctg tgcttcagcc ctaaccgcta 120
ctggctgtgt gctgccgcag gccccagcat caagatctgg gatttanagg gaaagatcnt 180
tgttnatgaa ctgaancnta aattatcagt tccannacca ngcaaaaacc acccngtgca 240
ctccctggcc tggctgctg atgggacctc gggcgcgaa acgctnancc caattccanc 300
aactgggcg gncgttacta ntggatccga actcnggtac caancttggc gtt 353
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<210> 108

<211> 360

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 61, 121, 145, 194, 202, 217, 237, 252, 254, 275, 279, 318,
330, 343, 346, 352

<223> n = A,T,C or G

<400> 108

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agcgtgggtcg cggccgaagt cctggcctca catgaccctg ctccagcaac ttgaacagga 60
naagcagcag ctacatcctt aaggtccgga aagtttagatg aagatttgga tcctgcattg 120
ncctgcctcc cacctatctc tccnaatta taaacagcct ccttgggaag cagcagaatt 180
taaaaactct cccnctgccc tnttgaacta cacaccnacc gggaaaacct ttttcanaat 240
ggcacaaaaa tcnaggggaa tgcatttcca tgaangaana aactgggtta cccaaaatta 300
ttgggttggg gaaatccngg ggggggtttt aaaaaagggc aanccncaa anaaaaaac 360
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<210> 109

<211> 101

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10, 47, 77, 82

<223> n = A,T,C or G

<400> 109

atcgtggctn cggccgaagt cctgtgtcct ggatggggccg tgtgcanca atccgttggc 60
gactcctaac taccaanaaa angactctcg gaagaaattt c 101

<210> 110

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 56, 116, 130, 236, 243, 246, 248, 271, 276, 280

<223> n = A,T,C or G

<400> 110

ccanggaaac ccagagtcac atgagatagg gtggcttttcg ggacaggggg tcagangaat 60
ggtacatgga tctcagcccc tgatggacac ggaacagggtg tggtcagaac tcccangatt 120
ctgcatccan gatccagtct ctatagaagt tatggatcat tccttcattt cattcccccc 180
ttcatgaaaa aacttctgaa caagcctttt ttctcacttt ggggccctgt ttggcncaag 240
gtnttnantt ggggaaaaaa aaacaaatcc ntccnttan ccctccgtgg ggaatgacct 300

<210> 111

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 42, 65, 90, 180, 250, 257, 264, 296, 333, 337

<223> n = A,T,C or G

<400> 111

cgagcggccg cccgggcagg tccttgtgtt gccatctgtt ancattgatt tctggaatgg 60
aacanctttc tcaaagtttg gtcttgctan tcatgaagtc atgtcagtgt cttaagtcac 120
tgctgtcac ttctttaccc agggaaatata ctgcataagt ttctgaacac ctgttttcan 180
tattcactgt tccttctcctg cccaaaattg gaagggacct catttaaaaa tcaaatttga 240
atcctgaaan aaaaacngga aatntttctc ttggaatttg gaatagaatt attcanttga 300
ataacatgtt ttttcccctt gccttgcctc tcncaanaac atctggacct cggccgcgac 360
acctta 366

<210> 112

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 7, 23, 29, 52, 119, 136, 139, 147, 172, 204, 232, 247, 320,
323, 324, 362, 386

<223> n = A,T,C or G

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<210> 113
<211> 401
<212> DNA
<213> Homo sapiens
```

```
<210> 114
<211> 401
<212> DNA
<213> Homo sapiens
```

```
<210> 115
<211> 401
<212> DNA
<213> Homo sapiens
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<400> 115
atccctgtaa gtctattaaa tgtaaataat acatacttta caacttctct tagtcggccc 60
ttggcagatt aaatctttgc aaaattccat atgtgctatt gaaaaatgaa ataaaacctc 120
agatgtctga attcttattt caaatcacagt tatataatta ttttaaatta caatatacaa 180
tttctgttaa atacacactgt taagggattc tgagaacaat tataagatta taataatata 240
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<400>	118						
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caaagaaatg	aacagttgta	gggagaccca	gcagcacctt	tcctccacac	accttcattt	180	
tgaagttcgg	gtttttgtgt	taagttaatc	tgtacattct	gtttgccatt	gttacttgta	240	
ctatacatct	gtatatagt	tacggcaaaa	gagtattaat	ccactatctc	tagtgcttga	300	
c						301	

<210> 119
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 119
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 acgagagcgg gctgcgtttg tgtggtgaat ggggaggaaa tgtcactgcc gaagacccaaa 180
 aacaagcttc ttggtataaa agactcttac agaatatgtg tattgtaatt tattgatctg 240
 gatgcttaag tgtcatggac agtaaatgaa tttgaacttt atgtttgagg acatgacatt 300
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 ggaactttct cttcagtttg taaaactctc ttgccctctc t 401

<210> 120
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 120
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 gaagctctat ataaatccaa gacaagcaac aaacccttga tgattattca tcacttgggt 180
 gagtggccac acagtcaagc tttaaagaaa gtgtttgctg aaaataaaga aatccagaaa 240
 ttggcagagc agtttgcctt cctcaatctg gtttatgaaa caactgacaa acacctttct 300
 c 301

<210> 121
 <211> 2691
 <212> DNA
 <213> Homo sapiens

<400> 121
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 ccgccaagtc gccctaccag ctggtgctgc agcacagcag gctccggggc cgccagcacg 180
 gccccaacgt gtgtgctgtg cagaagggtt ttggcactaa taggaagtac ttcaccaact 240
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 aggcctttat ggggccctgt ccaggtagaa aagaaatggg atgtagagct tagatttccc 2640
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<210> 122
 <211> 683
 <212> PRT
 <213> Homo sapiens

<400> 122
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 Gly Pro Ala Ala Thr Leu Ala Gly Pro Ala Lys Ser Pro Tyr Gln Leu
 20 25 30
 Val Leu Gln His Ser Arg Leu Arg Gly Arg Gln His Gly Pro Asn Val
 35 40 45
 Cys Ala Val Gln Lys Val Ile Gly Thr Asn Arg Lys Tyr Phe Thr Asn
 50 55 60
 Cys Lys Gln Trp Tyr Gln Arg Lys Ile Cys Gly Lys Ser Thr Val Ile
 65 70 75 80
 Ser Tyr Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly
 85 90 95
 Cys Pro Ala Ala Leu Pro Leu Ser Asn Leu Tyr Glu Thr Leu Gly Val
 100 105 110
 Val Gly Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu
 115 120 125
 Arg Pro Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser
 130 135 140
 Asn Glu Ala Trp Ala Ser Leu Pro Ala Glu Val Leu Asp Ser Leu Val
 145 150 155 160
 Ser Asn Val Asn Ile Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val
 165 170 175

Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr
 180 185 190
 Ser Met Tyr Gln Asn Ser Asn Ile Gln Ile His His Tyr Pro Asn Gly
 195 200 205
 Ile Val Thr Val Asn Cys Ala Arg Leu Leu Lys Ala Asp His His Ala
 210 215 220
 Thr Asn Gly Val Val His Leu Ile Asp Lys Val Ile Ser Thr Ile Thr
 225 230 235 240
 Asn Asn Ile Gln Gln Ile Ile Glu Ile Glu Asp Thr Phe Glu Thr Leu
 245 250 255
 Arg Ala Ala Val Ala Ala Ser Gly Leu Asn Thr Met Leu Glu Gly Asn
 260 265 270
 Gly Gln Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile
 275 280 285
 Pro Ser Glu Thr Leu Asn Arg Ile Leu Gly Asp Pro Glu Ala Leu Arg
 290 295 300
 Asp Leu Leu Asn Asn His Ile Leu Lys Ser Ala Met Cys Ala Glu Ala
 305 310 315 320
 Ile Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu
 325 330 335
 Val Gly Cys Ser Gly Asp Met Leu Thr Ile Asn Gly Lys Ala Ile Ile
 340 345 350
 Ser Asn Lys Asp Ile Leu Ala Thr Asn Gly Val Ile His Tyr Ile Asp
 355 360 365
 Glu Leu Leu Ile Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala
 370 375 380
 Glu Ser Asp Val Ser Thr Ala Ile Asp Leu Phe Arg Gln Ala Gly Leu
 385 390 395 400
 Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu
 405 410 415
 Asn Ser Val Phe Lys Asp Gly Thr Pro Pro Ile Asp Ala His Thr Arg
 420 425 430
 Asn Leu Leu Arg Asn His Ile Ile Lys Asp Gln Leu Ala Ser Lys Tyr
 435 440 445
 Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg
 450 455 460
 Val Phe Val Tyr Arg Asn Ser Leu Cys Ile Glu Asn Ser Cys Ile Ala
 465 470 475 480
 Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg
 485 490 495
 Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp
 500 505 510
 Asn Arg Phe Ser Met Leu Val Ala Ala Ile Gln Ser Ala Gly Leu Thr
 515 520 525
 Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn
 530 535 540
 Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly
 545 550 555 560
 Asp Ala Lys Glu Leu Ala Asn Ile Leu Lys Tyr His Ile Gly Asp Glu
 565 570 575
 Ile Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu
 580 585 590
 Gln Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val
 595 600 605

Asn Lys Glu Pro Val Ala Glu Pro Asp Ile Met Ala Thr Asn Gly Val
 610 615 620
 Val His Val Ile Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln
 625 630 635 640
 Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln
 645 650 655
 Ala Ser Ala Phe Ser Arg Ala Ser Gln Arg Ser Val Arg Leu Ala Pro
 660 665 670
 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His
 675 680

<210> 123
 <211> 1205
 <212> DNA
 <213> Homo sapiens

<400> 123
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 cgctccaggc cagtgagttg gttgtcactt actttttctg tggggaagaa attccatacc 180
 ggaggatgct gaaggctcag agcttgaccc tgggccactt taaagagcag ctccagcaaaa 240
 agggaaatta taggtattac ttcaaaaaag caagcgatga gtttgcctgt ggagcgggtgt 300
 ttgaggagat ctgggaggat gagacggtgc tcccgatgta tgaaggccgg attctgggca 360
 aagtggagcg gatcgattga gccctgcggt ctggcttttg tgaactgttg gagcccgaag 420
 ctcttgtgaa ctgtcttggc tgtgagcaac tgcgacaaaa cattttgaag gaaaattaaa 480
 ccaatgaaga agacaaagtc taagggaagaa tcggccagtg ggccttcggg agggcggggg 540
 gaggttgatt ttcatgattc atgagctggg tactgactga gataagaaaa gcctgaacta 600
 tttattaaaa acatgaccac tcttggctat tgaagatgct gcctgtattt gagagactgc 660
 catacataat atatgacttc ctagggatct gaaatccata aactaagaga aactgtgtat 720
 agcttacctg aacaggaatc cttactgata tttatagaac agttgatattc ccccatcccc 780
 agtttatgga tatgctgctt taaacttgga agggggagac aggaagtttt aattgttctg 840
 actaaactta ggagttgagc taggagtgcg ttcatggttt cttcactaac agaggaatta 900
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 gttgtgttgg atgggatgat ctggtgcaga gggagaggca gggaaacctg ctccctcggg 1140
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<210> 124
 <211> 583
 <212> DNA
 <213> Homo sapiens

<400> 124
 ccaagaagca gtggccttat tgcattccaa accacgcctc ttgaccaggc tgcctccctt 60
 gtggcagcaa cggcacagct aattctactc acagtgtttt taagtgaaaa tggtcgagaa 120
 agaggcacca ggaagccgtc ctggcgccgtg gcagtccgtg ggacgggatg gttctggctg 180
 tttgagattc tcaaaggagc gagcatgtcg tggacacaca cagactattt ttagattttc 240
 ttttgccttt tgcaaccagg aacagcaaat gcaaaaactc tttgagaggg taggaggggtg 300
 ggaaggaaac aacctgtca tttcagaagt tagttgttat atattattat aatcttataa 360
 ttgttctcag aatcccttaa cagttgtatt taacagaaat tgtatattgt aattttaaa 420
 aattatataa ctgtatttga aataagaatt cagacatctg aggtttttatt tcattttttca 480

atagcacata tggaaattttg caaagatttta atctgccaaag ggccgactaa gagaagttgt 540
aaagtatgta ttattttacat ttaatagact tacagggata agg 583

<210> 125
<211> 783
<212> DNA
<213> Homo sapiens

<400> 125
tcaaccatac atactgcttc cactagctaa taccaaatgc aggttctcag atccagacaa 60
atggaggaaa agaacattta tgcttccgtt tcagaaagcc aagtcgtagt tttggccctt 120
cctttctcta aagtttattc ccaaaaacag gtagcattcc tgattgggca gagaagagga 180
tattttcagc ccacatctgc tgcaggatag tcattttctc ccactttcac tgtgactagt 240
aaagatctca ccacttctct ttggaatttc caactttgct tgtgattgaa tgtcacttcg 300
tgaatttgta ttatgtcaga tcaacttgga ttgctcttcc atatgcatca agttgccagg 360
cactggttgcg ctgtcggggcc cactggaatc cacgggggtg aaacaaattc aattatgctt 420
ttacagatcc tgctcaaaaa aggtttcaac tgcttaacca agtacagctc attcttccac 480
cttcttactc tgcaacaaaa ccaagtggcc catactacag gtaggtgccg agaaattccg 540
cagcagaaaa tccaaaatca tttctgaaac ctcccttgcta acaaaagttc tttttttctc 600
caaacagcat ataaaatgat caagtcttga aagagaaaaa aagcaaagta gcaaatacat 660
caacaattca ctatcagaaa cacataaaat cccagagaga gagaaggcag tatctctgaa 720
tcatggatgg acttggaag ttcggaagga ttccgagtg ttcctttcag aaagacaatt 780
ctg 783

<210> 126
<211> 604
<212> DNA
<213> Homo sapiens

<400> 126
cctgctagaa tcaactgccgc tgtgctttcg tggaaatgac agttccttgt tttttttggtt 60
tctgtttttg ttttacatta gtcattggac cacagccatt caggaaactac cccctgcccc 120
acaaagaaat gaacagttgt agggagaccc agcagcacct ttccctccaca caccttcatt 180
ttgaagttcg ggtttttgtg ttaaagttaa tctgtacatt ctgtttgcca ttgttacttg 240
tactatacat ctgtatatag tgtacggcaa aagagtatta atccactatc tctagtgcct 300
gactttaaat cagtacagta cctgtacctg cacggtcacc cgctccgtgt gtcgccctat 360
attgagggct caagctttcc ctgtgttttt gaaaggggtt tatgtataaa tataatttat 420
gcctttttat tacaagtctt gtaactcaatg acttttgtca tgacattttg ttctacttat 480
actgtaaatt atgcattata aagagttcat ttaaggaaaa ttacttggtg caataattat 540
tgtaattaav agatgtagcc tttattaaaa ttttatattt ttcaaaaaaa aaaaaaaaaa 600
aaaa 604

<210> 127
<211> 417
<212> DNA
<213> Homo sapiens

<400> 127
ctgagcctct gtcaccagag aaggctgagg ccccaatggc acacctcaga aacctacacc 60
ccgaggtctg acggctggac tcttgagcac aagctccctc tcgcaccctt tgccagacag 120
tttgtctcca atttcaaaact gacctaaagg tcttactcct ggattttttg tttttaaacc 180
ttctcccagc cagtcttccg gagggcatga ttagagaagt gtccttttgc tgatggagga 240
ggggaccta ggaagaagg ggaatccagg tgccctctct ctaattgatc ctccccacct 300
agtttccttt gcctctcttc cttctaccag gtcattgttt ttactctctg ccccttctgc 360


```
<210> 128
<211> 657
<212> DNA
<213> Homo sapiens
```

```
<210> 129
<211> 1220
<212> DNA
<213> Homo sapiens
```

```
<210> 130
<211> 1274
<212> DNA
<213> Homo sapiens
```

<400> 130

```

ccatatgagt ttgccatctc catggatgcc atttcaatgc cttcagggta atcattctct 60
cccccagac tgcccacggg gtcactcact ctgtgacgaa atgagggctg gattgaagat 120
gttctgctga gacccccctt ggtcatcttt ggggtctcag aagagccata atcatgacca 180
ttctcagcat ctgaataatc aggttctctc caagtgttg gcaagttctg attgtcctca 240
gcactgggat agtctggctc cccaaaaaag ggtggagagt taggttgaat gtcagcgct 300
ggataatcag gctttcccag agagtctgcg tatggattga ttctaaaact tgtatgttcc 360
agattctttc tggatcctgg atggttcaaa ttggctctgg gtccaggatg atcagagttg 420
ctctgagctc cagggtagtc cggttctaag gagccaaaat gatctggatg tgttctggag 480
cctgcatagt ttccactgct gctggagcct gcaaaatcag gatttcgttg agatccaggg 540
tagtctgggt gtctggatga tgctcgggtg tagggatgac tctgaaattc actataatct 600
ggctctggta gagaggtagg atggtctggg cttgttctag aggctgcaga gtatgcattg 660
cttctgggtg cagaatagtc tggattactc agagatctag gataatttgg ttctgccaga 720
gaccaggat agtctggacg tgttctggag gctacagagt atggattgct cctggtgccg 780
gggtaatctg gattgttcag aggacctgga acatctggat aaccttgagt tttcaaatac 840
ccctgcgtac ggttctgaga ccctgaatag tcagggtaat ctgggtcttc ctcagaccag 900
ttattcctgt agtaggcaga catgttggtg tggactcttc accctggagt ggtaaactgt 960
cccagcattt gcaattactc agggatcttt tttttttcac ttttttgccc ttattgttct 1020
tgctttgtcc caagtagatg caaatgttgt gcaaaccaac ttgatcttaa gatgtgtta 1080
agaacactgg agtcacgtgt ccatgggtcc ttcaggctgg cttttgatgg gagctgggat 1140
gcagatgatt tacggagggt tataatctgt gatgctggtc tgaagtctga atattccaag 1200
ttgctgactg caggcagagc ctcatgtcct cctggcgctc ctggtgccgc tgcttgcgct 1260
ggccctcggg tcga 1274

```

```

<210> 131
<211> 554
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 403
<223> n = A,T,C or G

```

```

<400> 131
ctgtaattct gccttttcta ccttcattcc atccttcctc tgcccagata aagkccagca 60
gaaattcctc ctttctacct ctctgggact ctgagacagg aaatcttcaa ggaggagttt 120
ttccctcccc actattctta ttctcaaccc ccagaggaac caaggctgct gtaccacact 180
cagggacaga actccacact atagtgggaa agcttcaggg acccctcctt ttagtgctca 240
gggctcacct atgctactgg tccttttggc aaaaaaggaa aatgatagag ccagggttgc 300
ccctgatgta gcagccttac tgtggagggg ccaaagctgg tgttcagagc tcaccaagg 360
agggagggtg taagggtgtc tgcgttctgc tgaacccact ggntgggatg aacatgaggc 420
ttgggytgag ggaaaccaag taggggttgg agaaggagca gcaccttgt macacctggc 480
taccatagc tagctttctg ccctcaaaaa ctcagccttc aagggatcca gccacacac 540
gccacaggca gcag 554

```

```

<210> 132
<211> 787
<212> DNA
<213> Homo sapiens

```

```

<400> 132
ctggtcaccc aactcttgtg gaagagggga attgagatcg agtactgaat atctggcaga 60
gaggctggaa tccttcagcc ccagagccca gggaccactc cagtagatgc agagaggggc 120
ctgccagggt gtcagggcag tgggtatcac tggtgacatc aagaatatca gggctgggga 180

```

```

ggcatctttg tttcctggtg ccctccctcaa agttgctgac actttgggga cgggaagggg 240
tagaagtagg gctgctcctt ttggagctgg aggggaataga cctggagaca gagttgaggc 300
agtcgggctg tccaggttct aagcatcaca gcttctgcac tgggctctga ggagattctc 360
agccagagga tcccagcctc ctccctccctc aaatgtcagt ccaagcaaat accaaagcaa 420
cgcatcgatt ttgtggaagt caattagaga tgtggggagc tatcgagac aagcactatt 480
gtaccttttc acctccacac ttgtcacaag cagggactgt ctccctcccca ctttgcttgc 540
cacgcctgcc atggcttgag ctggggtgag gagtgggtctt tatcttcttt gggagatcct 600
gactggttgc gcacttgcta agggcaggaa gtctggaggg ctgcaggaat ggtgccgttg 660
ataaacaggt ggacttataa tcatcatgca ctgcaattgt agaacatagt ctctgcctt 720
ttctcatttg tataattgtc tgggtcaata ttctcccaat attgggaggg gctctgcagc 780
cctccag 787

```

```

<210> 133
<211> 219
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 19, 191
<223> n = A,T,C or G

```

```

<400> 133
tactgctcta agttttgtna aatttttcat attttaattt caagcttatt ttggagagat 60
aggaaggtca tttccatgta tgcataataa tcttgcaaag tacagggtact ttgtctaaga 120
aacattggaa gcagggttaa tgttttgtaa actttgaaat atatggtcta atgtttaagc 180
agaattggaa nagactaata tcgggttaaca aataacaac 219

```

```

<210> 134
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 134
gattttaaaa acatcatgac tttgaactga aaaacataca cgtttagcac acaaatattg 60
taatatgaat gaactccaac tccatttgaa aacatgtgaa tcaaagtaca gttttagaag 120
ttagtaattc acatttaagc aagtttagcg cttgctgaat acagcctttg taaaaaagag 180
acttagtgca tattttaatg gtacattgtg gttttgtacc atttggttga gttg 234

```

```

<210> 135
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<400> 135
ctccagcctg gctatatccg gtcccgtat aacctgggca tcagctgcat caacctcggg 60
gctcaccggg aggtgttgga gcactttctg gaggccctga acatgcagag gaaaagccgg 120
ggcccccggg gtgaaggagg tgccatgtcg gagaacatct ggagcaccct gcgtttggca 180
ttgtctatgt taggccagag cgatgcctat ggggcagccg acgcgcggga tctgtccacc 240
ctcctaacta tgtttggcct gccccagtga cagtgggacg ggctgccctg tgagtgtcca 300
cctgggggatt aaatatgtct tcaacaaggg aggcctggct tctacaatgg tttaggtaaa 360
ggggcccttg aagtagttct ggccaggcct gcaatacaca caacacaaga gccca 414

```

```

<210> 136

```

<211> 461
 <212> DNA
 <213> Homo sapiens

<400> 136
 gaagtgatta ataggtttat ttgcatatac acagagaaga gtcagcattg ttgggtgaga 60
 agaggcaggc tgtgaggagg taaggcttca gcagaggaag gcaccttgac agacaacacg 120
 agactcctat taaatcagca cagttgcaaa cttcacctgc ctcaagccaa cagctcattg 180
 aactcatatg tcgattgaga atcatttaca aaaccaggag agaaacaatg ggaagagcaa 240
 cgggtctctca tccctggacc tgacactcaa aacattatgt acaggatgca ggaacaaaat 300
 ctgtctgatc agtgccctct cctgctggga aaaacaccca tcacggaaga atttggggat 360
 taaatatgtc ttcaacaagg gaggcctggc ttctacaatg gtttaggtaa aggggccttt 420
 gaagtagttc tggccaggct tgcaatacac acaacacaag a 461

<210> 137
 <211> 269
 <212> DNA
 <213> Homo sapiens

<400> 137
 atagcaaatg gacacaaatt acaaatgtgt gtgcgtggga cgaagacatc tttgaaggtc 60
 atgagtttgt tagtttaaca tcatatattt gtaatagtga aacctgtact caaaatataa 120
 gcagcttgaa actggcttta ccaatcttga aatttgacca caagtgtctt atatatgcag 180
 atctaattgta aaatccagaa cttggactcc atcgttaaaa ttatttatgt gtaacattca 240
 aatgtgtgca ttaaatatgc ttccacagt 269

<210> 138
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 414
 <223> n = A,T,C or G

<400> 138
 ctccatggga ggcaaaatat agagaattta tggtgcccaa ctcttatgta atcactggac 60
 taatcttccc tggtaactat gcaacatttg gacagaaagg cacacaaaaa agtttaaata 120
 tttcatgtgc caatctggaa aaaaataatt taaatcaaca gaacagacag tacatctaca 180
 caaatgagga aagcagaaaa gatacctcac attcatttat ctcaggtttc aaagtggctt 240
 caatgctaaa gtaaatgtat taacatttgg aaaatacaag acaatttttt tgtttgtttt 300
 caattttttt agctctatac aatgattaca acataagaca aaaaaaaaaa aaaaacacaa 360
 aaaacaaaac aaaaaaggag ttcaggactt gttatcagtg tccaagtggc taanaactgg 420
 ttcccataac aagcattgaa agttaaggcc cc 452

<210> 139
 <211> 474
 <212> DNA
 <213> Homo sapiens

<400> 139
 tgtgcctcat tgaggttaca attgaaacag atgtgagcac ctgagagact ttccctgatt 60
 atattcctcc acaaacact gtacatattt acctattttt atcttcttga aattcttatt 120

```
<210> 140
<211> 487
<212> DNA
<213> Homo sapiens
```

```
<210> 141
<211> 248
<212> DNA
<213> Homo sapiens
```

```
<400> 141
ttaaagatgg ggaaatgagg cctgnaaata gaaaagattt gcctagagtc acacacactg 60
tcaggtcagg tagagtcaaa atcaggcacc ccgactcaca gactgcttca cattgccatc 120
agagattgtc ctgcaacaat attatgttta gttctactgc agaatgataa ctggatctta 180
ccccctttgc ctgatctggc cacaaaacttg tttttcaggt ctttcatta ggctctcttc 240
agctaatt
248
```

```
<210> 142
<211> 173
<212> DNA
<213> Homo sapiens
```

```
<210> 143
<211> 511
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 143
 cctcgtcaga ggggtggttc ctggtnacct gtactccacg gacctcgggtg aagcaaaagc 60
 ttcagggcag agggaatgag gcaacccagt ggcagccccg ctgggccccg tggctcctgc 120
 tctcctattg gacgtagagg caggggagag acttctctat acaaataattc tcatcacaga 180
 agggatgatc cttgctgctc tgccgtaggg tttttgatgc tgagctatgc tgcacatgac 240
 gttaacctaa agaacttgga ctgagctttt aaaaaaggac agcaaacaat tttataatcc 300
 ttaaagtgtg atagacgggt acactagtgc agggatattgg ggaggctctt tgggtgtgga 360
 ggctgtcact tgtatttatt gtgactctaa atctttgata gtaaaacaaa tgtaaaaaga 420
 aatgtttgcc accagatggg aatagaagtt ccaataagca ggctggaatg ggtggctata 480
 cgttgtatca cgaggaagtt ttagactctg a 511

<210> 144
 <211> 190
 <212> DNA
 <213> Homo sapiens

<400> 144
 cattcttctg tcacatgcca attcagttgt caatcccatt gtctatgctt accggaaccg 60
 agacttccgc tacacttttc acaaaattat ctccaggat ctctctctgcc aagcagatgt 120
 caagagtggg aatggtcagg ctgggggtaca gcctgctctc ggtgtgggcc tatgatctag 180
 gctctgcct 190

<210> 145
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 145
 gatgtgggta tctcctcaga tggccagttt gccctctcag gctcctggga tggaaacctg 60
 cgctctctggg atctcacaac gggcaccacc acgaggcgat ttgtgggcca taccaaggat 120
 gtgctgagtg tggccttctc ctctgacaac cggcagattg tctctggat 169

<210> 146
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 146
 atctagagaa gatttgggaa acacatgata gctatgggta aatacttaac agggcaatca 60
 cagggaagat gactagattt cctaacatcc atgagtgaag tttatagaag tatactctct 120
 gacttgatat aaaggaagat tttaaaaaac atgactgttc aggagtgttc aagtaggggtc 180
 agatgaccag tgattgggaa tacttcgtaa gcaggagcaa gtaagatctg agccactgtt 240
 ctatcggtag ggtgtctgtg gtattccttg gtcaaagaag tactctaagc aacttcagtc 300
 tcacgaatta ctatcacctt cgtgggcata catgatggtt accctaaaga ggaagtttca 360
 gaaggcagta atattggatc ctggaatagt cagacaggag ccttcatgca gatacccttt 420
 tcagttctcc atacaccat tcacaagtgg tcacaaaaac acccagtacc ttacttggc 480
 tttaccocact taacaatatg ctcaatatga g 511

```
<220>  
<221> misc_feature  
<222> 387  
<223> n = A,T,C or G
```

```
<210> 148
<211> 237
<212> DNA
<213> Homo sapiens
```

```
<210> 149
<211> 168
<212> DNA
<213> Homo sapiens
```

```
<210> 150
<211> 68
<212> DNA
<213> Homo sapiens
```

```
<400> 150
ggtagggggttt ggcagagatg antttaagtg ctgtggccag aagcgggggg ggggtttggt 60
ggaaattt                                     68
```

<400>	153					
gaattcggca	cgagggtggct	cagatgtcca	ctactggggag	tatgggtcgaa	ttgggaattt	60
tattgtgaaa	aagcccatgg	tgctgggaca	tgaagcttcg	ggaacagtcg	aaaaagtggg	120
atcatcggta	aagcacctaa	aaccagggtga	tcgtgttgcc	atcgagcctg	gtgctccccg	180
agaaaaatgat	gaattctgca	agatggggccg	atacaatctg	tcaccttcca	tcttcttctg	240
tgccgcgccc	cccgatgacg	ggaacctctg	ccggttctat	aagcacaatg	cagccttttg	300
ttacaagctt	cctgacaatg	tcacctttga	ggaaggcgcc	ctgatcgagc	cactttctgt	360
ggggatccat	gcctgcagga	gaggcggagt	taccttggga	cacaagggtcc	ttgtgtgtgg	420
agctgggccca	atcgggatgg	tcactttgct	cgtggccaaa	gcaatgggag	cagctcaagt	480
agtggtgact	gatctgtctg	ctacccgatt	gtc			513

<210> 154
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 154
 ggacagagct cgtgccgaat tcggcncgag cagacacaaat ggtaagaatg gtgcctgtcc 60
 tgctgtctct gctgctgctt ctgggtcctg ctgtcccccga ggagaaccaa gatggtcgtt 120
 actctctgac ctatatctac actgggctgt ccaagcatgt tgaagacgtc cccgcgtttc 180
 aggcccttgg ctactcaat gacctccagt tctttagata caacagtaaa gacaggaagt 240
 ctcagcccat gggactctgg agacagggtg aaggaatgga ggattggaag caggacagcc 300
 aacttcagaa ggccaggag gacatcttta tggagaccct gaaagacatc gtggagtatt 360
 acaacgacag taacgggtct cactgattgc aggggaaggt tggttgtgag atcgagaata 420
 acagaagcag cggagcattc tggaaatatt actatgatgg aaaggactac attgaattca 480
 acaaagaaat cccagcctgg gtccct 507

<210> 155
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27
 <223> n = A,T,C or G

<400> 155
 ggacagagga gacctaaagg ctgagntctg ggaacaggag aaagctctgt tggccctcca 60
 gcagcagtgt gctgagcagg cacaggagca tgagggtggag accagggccc tgcaggacag 120
 ctggctgcag gccaggcag tgctcaagga acgggaccag gagctggaag ctctgcgggc 180
 agaaagtcag tcctcccggc atcaggagga ggctgcccgg gcccgggctg aggctctgca 240
 ggaggccctt ggcaaggctc atgctgccct gcaggggaaa gagcagcatc tcctcgagca 300
 ggcagaattg agccgcagtc tggaggccag cactgcaacc ctgcaagcct ccctggatgc 360
 ctgccaggca cacagtcggc agctggagga ggctctgagg atacaagaag gtgagatcca 420
 ggaccaggat ctccgatacc aggaggatgt gcagcagctg cagcaggcac ttgcccagag 480
 ggatgaagag ctgagacatc agcagga 507

<210> 156
 <211> 509
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 156

```

ggcacgagga cagagagaac cctgtngaaa gagcgttacc aggaggtcct ggacaaacag 60
aggcaagtgg agaatcagct ccaagtgcaa ttaaagcagc ttcagcaaag gagagaagag 120
gaaatgaaga atcaccagga gatattaaag gctattcagg atgtgacaat aaagcgggaa 180
gaaacaaaga agaagataga gaaagagaag aaggagtttt tgcagaagga gcaggatctg 240
aaagctgaaa ttgagaagct ttgtgagaag ggcagaagag aggtgtggga aatggaactg 300
gatagactca agaatcagga tggcgaaata aataggaaca ttatggaaga gactgaacgg 360
gcctggaagg cagagatctt atcactagag agccggaaag agttactggt actgaaacta 420
gaagaagcag aaaaagaggc agaattgcac cttacttacc tcaagtcaac tcccccaaca 480
ctggagacag ttcgttccaa acaggagtg                                     509

```

```

<210> 157
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<400> 157
ggcacgaggg cagccctcct accggcgcac gtggtgccgc cgctgctgcc tcccgcctgc 60
cctgaaccca gtgcctgcag ccatggctcc cggccagctc gccttattta gtgtctctga 120
caaaaccggc cttgtggaat ttgcaagaaa cctgaccgct cttggtttga atctggctgc 180
ttccggaggg actgcaaaaag ctctcaggga tgctgggtctg gcagtcagag atgtctctga 240
gttgacggga tttcctgaaa tgttgggggg acgtgtgaaa actttgcatc ctgcagtcca 300
tgctggaatc ctagctcgta atattccaga agataatgct gacatggcca gacttgattt 360
caatcttata agagttgttg cctgcaatct ctatcccttt gttaaagacag tggcttctcc 420
aggtgtaagt gttgaggagg ctgtggagca aattgacatt ggtggagtaa ccttactgag 480
agctgcagcc aaaaaccacg ctcgagt                                     507

```

```

<210> 158
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 27, 428, 448, 449, 456, 462, 490, 492, 497, 498, 502, 503
<223> n = A,T,C or G

```

```

<400> 158
ggcacgagtc gagctgtgcc tattcngntc aatccaagag tgagtaatgt gaagtctgtc 60
tacaaaaccc acattgatgt cattcattat cggaaaacgg atgcaaaacg tctgcatggc 120
cttgatgaag aagcagaaca gaaacttttt tcagagaaac gtgtggaatt gcttaaggaa 180
ctttccagga aaccagacat ttatgagagg cttgcttcag ccttggctcc aagcatttat 240
gaacatgaag atataaagaa gggaattttg cttcagctct ttggcgggac aaggaaggat 300
tttagtcaca ctggaagggg caaatttcgg gctgagatca acatcttgct gtgtggcgac 360
cctggtacca gcaagtccca gctgctgcag tacgtgtaca acctcgcccc caggggccag 420
tacacgtntg ggaagggctc cagtgcantt ggcctnactg cntacgtaat gaaagacctt 480
gagacaaggn anctggnnct gnnacag                                     507

```

```

<210> 159
<211> 508
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 27

<223> n = A,T,C or G

<400> 162

```
ggcacgagca gctgtgcacc gacatgntct cagtgtcctg agtaagacca aagaagctgg 60
caagatcctc tctaataatc ccagcaaggg actggccctg ggaattgcca aagcctggga 120
gctctacggc tcacccaatg ctctggtgct actgattgct caagagaagg aaagaaacat 180
atttgaccag cgtgccatag agaattgagct actggccagg aacatccatg tgatccgacg 240
aacatttgaa gatatctctg aaaaggggtc tctggaccaa gaccgaaggc tgtttgtgga 300
tggccaggaa attgctgtgg ttactttccg ggatggctac atgcctcgtc agtacagtct 360
acagaattgg gaagcacgtc tactgctgga gaggtcacat gctgccaaagt gccagacat 420
tgccaccag ctggctggga ctaagaaggc gcagcaggag ctaagcaggc cgggcatgct 480
ggagatgttg ctccctggcc agcctga 507
```

<210> 163

<211> 460

<212> DNA

<213> Homo sapiens

<400> 163

```
ggcacgagaa ataactttat ttcatttgtg gtcgcggttc ttgtttgtgg atcgctgtga 60
tcgtcacttg acaatgcaga tcttcgtgaa gactctgact ggtaagacca tcaccctcga 120
ggttgagccc agtgacacca tcgagaatgt caaggcaaag atccaagata aggaaggcat 180
ccctcctgac cagcagaggc tgatctttgc tggaaaacag ctggaagatg ggcgcaccct 240
gtctgactac aacatccaga aagagtccac cctgcacctg gtgctccgtc tcagaggtgg 300
gatgcaaata ttcgtgaaga cactcactgg caagaccatc acccttgagg tggagccag 360
tgacaccatc gagaacgtca aagcaaagat ccaggacaag gaaggcattc ctctgacca 420
gcagaggttg atctttgccg gaaagcagct ggaagatggg 460
```

<210> 164

<211> 462

<212> DNA

<213> Homo sapiens

<400> 164

```
ggcacgagcc ggatctcatt gccacgcgcc cccgacgacc gcccgacgtg cattccccgat 60
tccttttggg tccaagtcca atatggcaac tctaaaggat cagctgattt ataattcttct 120
aaaggaagaa cagaccccc agaataagat tacagttggt ggggttggtg ctgttggcat 180
ggcctgtgcc atcagtatct taatgaagga cttggcagat gaacttgctc ttgttgatgt 240
catcgaagac aaattgaagg gagagatgat ggatctccaa catggcagcc ttttccttag 300
aacaccaaag attgtctctg gcaaagacta taatgtaact gcaaactcca agctgggtcat 360
tatcacggct ggggcacgtc agcaagaggg agaaagccgt cttaatttgg tccagcgtaa 420
cgtgaacatc tttaaattca tcatttcctaa tgttgtaaaa ta 462
```

<210> 165

<211> 462

<212> DNA

<213> Homo sapiens

<400> 165

ggcacgagga	agccatgagc	agcaaagtct	ctcgcgacac	cctgtacgag	gcggtgcggg	60
aagtcttgca	cgggaaccag	cgcaagcgcc	gcaagttcct	ggagacgggtg	gagttgcaga	120
tcagcttgaa	gaactatgat	ccccagaagg	acaagcgctt	ctcgggcacc	gtcagtgctta	180
agtccactcc	ccgccctaag	ttctctgtgt	gtgtcctggg	ggaccagcag	cactgtgacg	240
aggctaaggc	cgtggatata	ccccacatgg	acatcgaggc	gctgaaaaaa	ctcaacaaga	300
ataaaaaaact	ggtcaagaag	ctggccaaga	agtatgatgc	gtttttggcc	tcagagtctc	360
tgatcaagca	gattccacga	atcctcggcc	caiggtttaa	taaggcagga	aagttccctt	420
ccctgtctac	acacaacgaa	aacatggtgg	ccaaagtgga	tg		462

```
<210> 166
<211> 459
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 19, 27, 40, 42, 43, 46, 63, 65, 70, 85, 87, 94, 102, 103,
106, 144, 149, 166, 202, 209, 215, 216, 221, 310, 315, 332,
358, 366, 368, 379, 382, 384, 410, 424, 429, 434
<223> n = A,T,C or G
```

<400>	166						
ggcacgagag	ggacctgtnt	gaatggntcc	actagggttt	anntgnctct	tacttttaac	60	
cantnaaatn	gacctgcccg	tgaanangcg	ggcntgacac	annaanacga	gaagacccta	120	
tggagcttta	atttattaat	gcanacagna	cctaacaaac	ccacangtcc	taaactacca	180	
agcctgcatt	aaaaatttcg	gntggggcna	cctcnnagca	naacccaacc	tccgagcaac	240	
tcatgctaag	acttcaccag	tcaaagctga	actactatac	tcaattgata	caataacttg	300	
accaacagan	caagntaccc	tagggataac	ancacaatcc	tattctagac	cccttatnac	360	
caatangntt	tacacctcna	tnngngaacc	aggacatccg	atggggcagn	cgttattaaa	420	
gttngttgnt	aacnataaag	tctacgtgat	ctgagttag			459	

```
<210> 167
<211> 464
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 17, 20, 22, 28, 33, 40, 45, 46, 55, 82, 99, 108, 115, 132,
150, 171, 182, 192, 244, 252, 276, 306, 313, 318, 320, 332,
352, 370, 376, 377, 378, 393, 395, 399, 403, 420, 434, 435,
455, 456
<223> n = A,T,C or G
```

<400>	167						
gaattggggac	caacganaan	cntgcggntc	ttntttttgcn	tccanngccc	agctnattgc	60	
tcagacacac	atgggggaagg	tnaaggtcgg	gagtcaacng	atttggtngt	attgnagcgt	120	
ttggtcacca	gngctgcttt	taactctggn	aaagtggata	ttgttgatcat	naatgacccc	180	
tncattgacc	tnaactacat	ggtttacatg	ttccaatatg	attccaccca	tggcaaattc	240	
catngcaccg	tnaaggctga	gaacgggaag	cttgtnatca	atggaaatcc	catcaccatc	300	
tttcangaac	ganatccntn	caaaaatcaa	anttgggggc	gatgcttggc	cncttgaagt	360	
accgttcaan	gggaannncc	ccactttggc	cgntntttnc	aanccacccc	caatttgggn	420	
aaaaaaaaaag	gggnnttttg	gggggggcct	tttanntttt	tttt		464	

<210> 168
 <211> 462
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 11, 12, 18, 42, 47, 83, 84, 88, 91, 100, 123, 172, 174,
 177, 189, 192, 196, 199, 204, 210, 216, 218, 228, 231, 232,
 236, 240, 249, 251, 259, 263, 264, 269, 272, 275, 278, 280,
 287, 292, 294, 305, 310, 328, 329, 335, 345, 349, 357
 <223> n = A,T,C or G

<221> misc_feature
 <222> 375, 377, 446, 455
 <223> n = A,T,C or G

<400> 168
 ggcacgaggn nnaacctncg gggctggggc agcacgcctt gngcaancct gcactgcact 60
 gaagacccgg tgccggaagc cgngggcngc nacatgcagn aactgaacca gctgggcgcg 120
 cancagttct cagacctgac agagggtgctt ttacacttcc taactgatcc anantangtg 180
 gaaatatnt tngttnatnt catntgaatn atccancncc aatcatancca nntttnattn 240
 cctcataanc nttagaana gcnnccctnt gnttnccan ggtgctntga anangagtct 300
 cacangcaan caggtccaag cggatttntt aactntgggt cttantgang agaaagncac 360
 ttacttttct gaaancngga agcagaatgc tcccaccctt gctcgatggg ccatacgtca 420
 agactctgat gattaaccag ctttanatat ggacnggaaa tt 462

<210> 169
 <211> 460
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20, 64, 69, 71, 73, 91, 109, 113, 151, 237, 238, 241, 255,
 266, 269, 280, 290, 302, 312, 318, 329, 334, 355, 357, 359,
 376, 379, 380, 382, 397, 409, 410, 415, 422, 442, 446, 452
 <223> n = A,T,C or G

<400> 169
 ggcacgaggg acagcagacn agacagtcac agcagccttg acaaaacggt cctggaactc 60
 aagntcttnt ncncaaagga ggacagagca nacagcagag accatggant ctnccctcggc 120
 ccctcccccac agatgggtgca tcccctggca naggtccttg ctacagcct cacttctaac 180
 ctcttggaac ccgcccacca ctgccaagct cactattgaa tccacgccgt tcaatgnntc 240
 ntaggggaag gagnggcttt ctactnttnc acaatctgan ccccttcttn tttgggttact 300
 ancatggctc tncatgtnaa aatactggna tggntaacct gtcaaattta taggnantnt 360
 gctaattggg aaactnccnn tngtctaccc caggggnccc agattcctnn gttcncataa 420
 cnattaattt aaccctaat gncaanccct tngttaaaga 460

<210> 170
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 27
 <223> n = A,T,C or G

<400> 170
 ggcacgaggg ggatttttag gtggtcnggt gtggtatcag gaataatgtg ggaggccaga 60
 ttgaagtcca ggccaggaac aatggtaatt gtgggactta agaaagtgtg agtacagctg 120
 aatgagccgg ggagcagaaa gtatatgcgt caggatagag gaagaaaata gattttggaa 180
 gttatgagaa atgtagagag tgagttgagc atagtttgtg attttgaggg cctctaacag 240
 tattaagca gcggcagcgg ctgcacacag acatgatggc taggctaaaa caggaagggtc 300
 aagttgtttg gacagaaagg ctacaggggtg cagtcctggc tcttgtgtaa gaattctgac 360
 cacactaacc atgcctagga aggaaaggag ttgttctttt gtaagggatt gaggtttggg 420
 agattaatcg gacacgatca gcaggagag cacctgtgtt tttatgagaa ttatgctgag 480
 ataggttaaca gatgaggatg aaatttgg 508

<210> 171
 <211> 507
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 171
 ggcacgagac cagccactag cgcagnctcg agcgatggcc tatgtccccg caccgggcta 60
 ccagcccacc tacaaccoga cgctgcctta ctaccagccc atcccgggcg ggctcaacgt 120
 gggaaatgtct gtttacatcc aaggagtggc cagcgagcac atgaagcggg tcttcgtgaa 180
 ctttgtgggt gggcaggatc cgggctcaga cgtcgccttc cacttcaatc cgcggtttga 240
 cggctgggac aaggtggtct tcaacacgtt gcagggcggg aagtggggca gcgaggagag 300
 gaagaggagc atgcccttca aaaaggggtgc cgcctttgag ctggtcttca tagtcctggc 360
 tgagcactac aaggtggtgg taaatggaaa tcccttctat gagtacgggc accggcttcc 420
 cctacagatg gtcacccacc tgcaagtgga tggggatctg caacttcaat caatcaactt 480
 catcggaggc cagcccctcc ggcccca 507

<210> 172
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 172
 ggcacgagct ggagtgtctg ctgccacccc ctcgctcctct gcagaaatgt ctgtcaccta 60
 cgatgactct gtgggagtgg aagtgtccag cgacagcttc tgggagggtg ggaactacaa 120
 acggactgtg aagcggattg acgatggcca ccgcctgtgt ggtgacctca tgaactgtct 180
 gcatgagcgg gcacgcatcg agaaggcgta tgcacagcag ctcaactgag gggcccgaag 240
 ctggaggcag ctggtagaga agggaccaca gtatgggacc gtggagaagg cctggatagc 300
 tgtcatgtct gaagcagaga gggtagagtga actgcacctg gaagtgaagg catcactgat 360
 gaatgaagac tttgagaaga tcaagaactg gcagaaggaa gcctttcac 409

<210> 173
 <211> 409
 <212> DNA

<213> Homo sapiens

<400> 173

```
ggcacgaggg cagctagagg aagagtccaa ggccaagaac gcaactggccc acgccctgca 60
gtcagctcgc catgactgtg acctgctgcg ggaacagtat gaagaggagc aggaagccaa 120
ggctgagctg cagagggcca tgtccaaggc caacagcgag gtagcccagt ggaggacgaa 180
atatgagacg gatgccatcc agcgcacaga ggagctggaa gaggccaaga agaagctggc 240
tcagcgtctg caggatgctg aggaacatgt agaagctgtg aattccaaat gcgcttctct 300
tgaaaagacg aagcagcgac ttcagaatga agtggaggac ctcatgattg acgtggagag 360
gtctaattgct gcctgcgctg cgcttgataa gaagcagagg aactttgac 409
```

<210> 174

<211> 407

<212> DNA

<213> Homo sapiens

<400> 174

```
ggcacgagcc ggggcggggc gcggcgctcc ggctcgaggc attcgagct gcgggagccg 60
ggctggcagg agcaggatgg cggcgcgcg cggctgcaggc gaggcgcgcc ggggtgctgt 120
gtacggcggc aggggcgctc tgggttctcg atgcgtgcag gcttttcggg cccgcaactg 180
gtgggttgcc agcgttgatg tgggtggagaa tgaagaggcc agcgctagca tcattgttaa 240
aatgacagac tcgttactg agcaggctga ccaggtgact gctgaggttg gaaagctctt 300
gggtgaagag aagggtggatg caattctttg cgltgctgga ggatgggccg ggggcaatgc 360
caaatccaag tctctcttta agaactgtga cctgatgtgg aagcaga 407
```

<210> 175

<211> 407

<212> DNA

<213> Homo sapiens

<400> 175

```
ggcacgagct tgcccgtcgg tcgctagctc gctcgggtgcg cgtcgtcccg ctccatggcg 60
ctcttcgtgc ggctgctggc tctcgccctg gctctggccc tgggccccgc cgcgaccctg 120
gcgggtcccg ccaagtgcgc ctaccagctg gtgctgcagc acagcaggct ccggggccgc 180
cagcacggcc ccaacgtgtg tgctgtgcag aaggttattg gcactaatag gaagtacttc 240
accaactgca agcagtggta ccaaaggaaa atctgtggca aatcaacagt catcagctac 300
gagtgtgtgc ctggatatga aaagggtccct ggggagaagg gctgtccagc agccctacca 360
ctctcaaacc ttacagagac cctgggagtc gttggatcca ccaccac 407
```

<210> 176

<211> 409

<212> DNA

<213> Homo sapiens

<400> 176

```
ggcacgagtg gtgccaaaac gggaccatgc cctcctggag gagcagagca agcagcagtc 60
caacgagcac ctgcgcgcgc agttcgccag ccaggccaat gttgtggggc cctggatcca 120
gaccaagatg gaggagatcg ggcgcattct cattgagatg aacgggaccc tggaggacca 180
gctgagccac ctgaagcagt atgaacgcag catcgtggac tacaagccca acctggacct 240
gctggagcag cagcaccagc tcatccagga ggccctcatc ttcgacaaca agcacacca 300
ctataccatg gagcacatcc gcgtgggctg ggagcagctg ctaccacca ttgcccgcac 360
catcaacgag gtggagaacc agatcctcac ccgcgacgcc aagggcac 409
```

<210> 177


```
<210> 181
<211> 411
<212> DNA
<213> Homo sapiens
```

<400> 181
 ggcacgagggc gggacagggc gaagcggcct gcgcccacgg agcgcgcgac actgcccggg 60
 agggaccgcc acccttgccc cctcagctgc ccaactcgtga tttccagcgg cctccgcgcg 120
 cgacagatgc cctcggccac cagccacagc gggagcggca gcaagtcgtc cggaccgcca 180
 ccgccgtcgg gttcctccgg gagtgaggcg gccgcgggag ccggggccgc cgcgccggct 240
 tctcagcacc ccgcaaccgg caccggcgct gtccagaccg aggccatgaa gcagattctc 300
 ggggtgatcg acaagaaact tcggaacctg gagaagaaaa agggtaagct tgatgattac 360
 caggaacgaa tgaacaaagg ggaaaggctt aatcaagatc agctggatgc c 411

<210> 182
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 182
 ggcacgagcc gacatggagc tgttcctcgc gggccgcggg gtgctgggtca ccggggcagg 60
 caaaggtata gggcgcgga cgggtccaggc gctgcacgcg acggggcgcg ggggtgggtggc 120
 tgtgagccgg actcaggcgg atcttgacag ccttgtccgc gagtgcccgg ggatagaacc 180
 cgtgtgcgtg gacctgggtg actgggaggc caccgagcgg gcgctgggca gcgtgggccc 240
 cgtggacctg ctgggtgaaca acgccgctgt cgccctgctg cagcccttcc tggaggtcac 300
 caaggaggcc tttgacagat cctttgaggt gaacctgcgt gcggtcatcc aggtgtcgca 360
 gattgtggcc aggggcttaa tagcccgggg agtcccaggg gccatcgtga a 411

<210> 183
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 183
 ggcacgagcc tacactctgg ccagagatac cacagtcaaa cctggagcca aaaaggacac 60
 aaaggactct cgacccaaac tgccccagac cctctccaga ggttggggtg accaactcat 120
 ctggactcag acatatgaag aagctctata taaatccaag acaagcaaca aacccttgat 180
 gattattcat cacttggtat agtgcccaca cagtcaagct ttaaagaaag tgtttgctga 240
 aaataaagaa atccagaaat tggcagagca gtttgtctc ctcaatctgg tttatgaaac 300
 aactgacaaa cacctttctc ctgatggcca gtatgtcccc aggattatgt ttgttgacct 360
 atctctgaca gttagagccg atatcactgg aagatattca aatcgtctc 409

<210> 184
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 184
 ggcacgaggt cattccagca ccaacaggat ccaagccaga ttgattgggc tgcattggcc 60
 caagcttggg ttgcccagg agaagcttca ggacagcaaa gcatggtaga acaaccacca 120
 ggaatgatgc caaatggaca agatatgtct acaatggaat ctggtccaaa caatcatggg 180
 aatttccaag gggattcaaa cttcaacaga atgtggcaac cagaatgggg aatgcatcag 240
 caacccccac acccccctcc agatcagcca tggatgccac caacaccagg cccaatggac 300
 attgttctct cttctgaaga cagcaacagt caggacagtg ggggaatttg ccctgacaac 360
 aggcataat ttaaccagaa caatcacaac tttggtggac cacccgataa 410

<210> 185
 <211> 411

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 366
<223> n = A,T,C or G

<400> 185
ggcacgagca cagatgtagt tttctctgcg cgtgtgcgtt ttccctcctc ccccgccctc 60
aggggtccacg gccaccatgg cgtattaggg gcagcagtgc ctgcggcagc attggccttt 120
gcagcggcgg cagcagcacc aggctctgca gcggcaaccc ccagcggctt aagccatggc 180
gcttctcacg gcattcagca gcagcgttgc tgtaaccgac aaagacacct tcgaattaag 240
cacattcctc gattccagca aagcaccgca acatgaccga aatgagcttc ctgagcagcg 300
aggtgttggg gggggacttg atgtcccccct tcgaccgcgc gggtttgggg gctgaagaaa 360
gcctangtct cttagatgat tacctggagg tggccaagca cttcaaacct c 411

<210> 186
<211> 410
<212> DNA
<213> Homo sapiens

<400> 186
ggcacgagct tctagtcccg ccatggccgc tctcaccgga gacccccagt tccagaagct 60
gcagcaatgg taccgcgagc accgctccga gctgaacctg cgcgcctctc tcgatgccaa 120
caaggaccgc ttcaaccact tcagcttgac cctcaacacc aacctgggc atatcctggg 180
ggattactcc aagaacctgg tgacggagga cgtgatgcgg atgctggtgg acttggccaa 240
gtccaggggc gtggaggccg cccgggagcg gatgttcaat ggtgagaaga tcaactacac 300
cgagggtcga gccgtgctgc acgtggctct gcggaaccgg tcaaacacac ccattcctgg 360
agacggcaag gatgtgatgc cagaggtcaa caaggttctg gacaagatga 410

<210> 187
<211> 506
<212> DNA
<213> Homo sapiens

<400> 187
ctttcgtggc tcaactccctt tcctctgctg ccgctcggtc acgcttgtgc ccgaaggagg 60
aaacagtgac agacctggag actgcagttc tctatccttc acacagctct ttcacatgc 120
ctggatcact tcctttgaat gcagaagctt gctggccaaa agatgtggga attgttgccc 180
ttgagatcta ttttccttct caatatgttg atcaagcaga gttggaaaaa tatgatggtg 240
tagatgctgg aaagtatacc attggcttgg gccaggccaa gatgggcttc tgcacagata 300
gagaagatat taactctctt tgcattgactg tggttcagaa tcttatggag agaaataacc 360
tttcctatga ttgcattggg cggctggaag ttggaacaga gacaatcatc gacaaatcaa 420
agtctgtgaa gactaatttg atgcagctgt ttgaagagtc tgggaataca gatatagaag 480
gaatcgacac aactaatgca tgctat 506

<210> 188
<211> 506
<212> DNA
<213> Homo sapiens

<400> 188
gccacagagg cggcggagag atggccttca gcggttccca ggctccctac ctgagtccag 60

```

ctgtccocctt ttctgggact attcaaggag gtctccagga cggacttcag atcactgtca 120
atgggaccgt tctcagctcc agtggaacca ggtttgctgt gaactttcag actggcttca 180
gtggaaatga cattgccttc cacttcaacc ctccggttga agatggaggg tacgtgggtgt 240
gcaacacgag gcagaacgga agctgggggc ccgaggagag gaagacacac atgcctttcc 300
agaaggggat gccctttgac ctctgcttcc tggcgcagag ctccagatttc aagggtgatgg 360
tgaacgggat cctcttcgtg cagtacttcc accgcgtgcc cttccaccgt gtggacacca 420
tctccgtcaa tggctctgtg cagctgtcct acatcagctt ccagcctccc ggcgtgtggc 480
ctgccaaccc ggctcccatt acccag                                     506

```

```

<210> 189
<211> 399
<212> DNA
<213> Homo sapiens

```

```

<400> 189
ctggacagga gaagagcctg gctgctgaag gcagggctga cagcaccacg ggcagcattg 60
ctggagcccc agaggatgaa agatcgagga gcacagcccc ccaggcacca gactgcttcg 120
accctgccgg accggctggg ctctgtaggc cgacatctgg cctttcccag ggcccaggaa 180
aggaaacctt ggaaagtgtc ctaatcgctc tagactctga aaaacccaag aaacttcgct 240
tccacccaaa gcagctgtac ttctctgcca ggcagggtga gctgcagaag gtgcttctca 300
tgctgggttg tgggaattgat cccaacttca aaatggagca ccaaagtaag cgttcccat 360
tacatgctgc tgcggaggct ggccacgtgg acatctgcc                                     399

```

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<210> 190
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 190
cggcgacggg ggtggtgact gagcggagcc cggtgacagg atgttggtgt tggattagg 60
agatctgcac atcccacacc ggtgcaacag tttgccagct aaattcaaaa aactcctggt 120
gccaggaaaa attcagcaca ttctctgcac aggaaacctt tgcaccaaag agagttatga 180
ctatctcaag actctggctg gtgatgttca tattgtgaga ggagacttcg atgagaatct 240
gaattatcca gaacagaaag ttgtgactgt tggacagttc aaaattgggtc tgatccatgg 300
acatcaagtt attccatggg gagatatggc cagcttagcc ctggtgcaga ggcaatttga 360
tgtggacatt cttatctcgg gacacacaca caaatttgaa g                                     401

```

```

<210> 191
<211> 406
<212> DNA
<213> Homo sapiens

```

```

<400> 191
tggcagccta agccgtggga gggttccagt cgagaatggg aagatgaaag acttcagatg 60
gaacagaaat aaatgccttt tttgacaaac gcagcagtgct gtgcctctag cttgcaagag 120
cgttactccc cttcatagct ttaaaagggt ttccgactgc gtgcagttag agtagctaaa 180
tcttggtgta cgctccacaa aactttgtaa gaattttgca gagaaagata accggttgcca 240
cccaatgccc ccacaggcca ttctactccc cagtacctct taggggtggga gaaatggtga 300
agagttgttc ctacaacttg ctaacctagt ggacagggta gtagattagc atcatccgga 360
tagatgtgaa gaggacggct gtttgataa taattaagga taaaat                                     406

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<210> 192
<211> 316
<212> DNA

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<213> Homo sapiens

<400> 192

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ccccggggagg ccctgggtcat aaaacttttaa attttactag tgttacttaa tgtatatattct 60
aaaaagagaa tgcagtaact aatgccctaa atgtttgatc tctgtttgtc attacttttt 120
caaaattatt tttttctgta aagtataata tataaaactt cttgcttaaa ttgaatttct 180
atattagtgg ttaattgcag tttattaaag ggatcattat cagtaatttc atagcaactg 240
ttctagtgtt ttgtgttttt aaaacagaat taggaatttg agatatctga ttatatatttt 300
catatgaatc acagac                                     316

```

<210> 193

<211> 146

<212> DNA

<213> Homo sapiens

<400> 193

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gaaacatgga ctgccccctta aattttgact gtcctaaaaa cctattttctg atttataata 60
tgctgcctga taaagtgaca ctagatgtac cagctgagtg tttaatcttc ccatcacaga 120
tcagatttga gcattaacag gtattt                                     146

```

<210> 194

<211> 405

<212> DNA

<213> Homo sapiens

<400> 194

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cggatgtgct cactgacatt ctactccaag tcggagatgc agatccactc caagtcacac 60
accgagacca agccccacaa gtgcccacat tgctccaaga ccttcgccaa cagctcctac 120
ctggcccagc acatccgtat acactcaggg gctaagccct acagttgtaa cttctgtgag 180
aaatccttcc gccagctctc ccaccttcag cagcacaccc gaatccacac tggatgata 240
ccatacaaat gtgcacaccc aggtctgtgag aaagccttca cacaactctc caatctgcag 300
tcccacagac ggcaacacaa caaagataaa cccttcaagt gccacaactg tcatcgggcg 360
tacacggatg cagcctcact agaggtgcac ctgtctacgc acaca                                     405

```

<210> 195

<211> 421

<212> DNA

<213> Homo sapiens

<400> 195

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agaattcggc acgagctact ccttgcgcgc tggcaactccg cagcctttta gggttcgcgcg 60
ggggccaggc aagagtttagc catgaagagc ctcaagtccc gcctgaggag gcaggacgtg 120
cccggccccg cgtcgtctgg cgccgcgcgc gccagcgcgc atgcagcaga ttggaataaa 180
tatgatgacc gattgatgaa agcagcagaa aggggggatg tagaaaaagt gacgtcaatc 240
cttgctaaaa aggggggtcaa tccaggcaaa ctagatgtgg aaggcagatc tgtcttccat 300
gttgtgacct caaaggggaa tcttgagtgt ttgaatgcc aacctataca tggagttgat 360
attacaacca gtgacactgc agggagaaat gctcttcacc tggctgctaa gtatggacat 420
g                                                                                   421

```

<210> 196

<211> 476

<212> DNA

<213> Homo sapiens

<400> 196

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agaattgatac tatagattta atgcaatgcc tactaaaatc ccagtagcat tttttacagg 60
catagacaat agacatagcc aaaacttatt ctaaaataca tatgaagatg cacaggccct 120
agttatacaa tcttgacaaa gaagaataaa gtgggaagaa tctatttgat ttttaaggctt 180
accatgtaac tacagtcatac aagagagtgt ggtatcggca gacggtcaga catacagatc 240
aatggaatgt aacagaggac ccagaaatag gccacacag atatgctcaa tggataattg 300
acaagcgtgc aaaacaattc aatggaagaa taagctttca aaaaaatggc gttggagcaa 360
ccggacatcc ataggaaaaa atgaacccat acctaaacca taaaccttat ataaaaataa 420
acacaaaatg aatcataggc ttaaatgtaa gctataaaac ttttagagaa aaacac 476

```

<210> 197

<211> 503

<212> DNA

<213> Homo sapiens

<400> 197

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tagccctcgg tgaagcccca gaccacagct atgagtcctt tcgtgtgacg tctgcgcaga 60
aacatgttct gcatgtccag ctcaaccggc ccaacaagag gaatgccatg aacaaggtct 120
tctggagaga gatggtagag tgcttcaaca agatttcgag agacgctgac tgtcgggcgg 180
tggatgatctc tgggtgcagga aaaatgttca ctgcagggtat tgacctgatg gacatggctt 240
cggacatcct gcagcccaaaa ggagatgatg tggcccggat cagctggtac ctccgtgaca 300
tcatcactcg ataccaggag accttcaacg tcatcgagag gtgcccgaag cccgtgattg 360
ctgccgtcca tgggggctgc attggcggag gtgtggacct tgtcaccgcc tgtgacatcc 420
ggtactgtgc ccaggatgct ttcttccagg tgaaggaggt ggacgtgggt ttggctgccc 480
atgtaggaac actgcagcgc ctg 503

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<210> 198

<211> 168

<212> PRT

<213> Homo sapiens

<400> 198

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Phe Val Ala His Ser Leu Ser Ser Ala Ala Ala Arg Ser Arg Leu Cys
 1           5           10           15
Pro Lys Glu Glu Thr Val Thr Asp Leu Glu Thr Ala Val Leu Tyr Pro
      20           25           30
Ser His Ser Ser Phe Thr Met Pro Gly Ser Leu Pro Leu Asn Ala Glu
      35           40           45
Ala Cys Trp Pro Lys Asp Val Gly Ile Val Ala Leu Glu Ile Tyr Phe
      50           55           60
Pro Ser Gln Tyr Val Asp Gln Ala Glu Leu Glu Lys Tyr Asp Gly Val
      65           70           75           80
Asp Ala Gly Lys Tyr Thr Ile Gly Leu Gly Gln Ala Lys Met Gly Phe
      85           90           95
Cys Thr Asp Arg Glu Asp Ile Asn Ser Leu Cys Met Thr Val Val Gln
      100          105          110
Asn Leu Met Glu Arg Asn Asn Leu Ser Tyr Asp Cys Ile Gly Arg Leu
      115          120          125
Glu Val Gly Thr Glu Thr Ile Asp Lys Ser Lys Ser Val Lys Thr
      130          135          140
Asn Leu Met Gln Leu Phe Glu Glu Ser Gly Asn Thr Asp Ile Glu Gly
      145          150          155          160
Ile Asp Thr Thr Asn Ala Cys Tyr
      165

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100530198

[illegible]

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<210> 200
<211> 132
<212> PRT
<213> Homo sapiens
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<400> 200																
Gly	Gln	Glu	Lys	Ser	Leu	Ala	Ala	Glu	Gly	Arg	Ala	Asp	Thr	Thr	Thr	
1				5					10					15		
Gly	Ser	Ile	Ala	Gly	Ala	Pro	Glu	Asp	Glu	Arg	Ser	Gln	Ser	Thr	Ala	
			20					25					30			
Pro	Gln	Ala	Pro	Glu	Cys	Phe	Asp	Pro	Ala	Gly	Pro	Ala	Gly	Leu	Val	
		35					40					45				
Arg	Pro	Thr	Ser	Gly	Leu	Ser	Gln	Gly	Pro	Gly	Lys	Glu	Thr	Leu	Glu	
	50					55					60					
Ser	Ala	Leu	Ile	Ala	Leu	Asp	Ser	Glu	Lys	Pro	Lys	Lys	Leu	Arg	Phe	
65					70					75					80	
His	Pro	Lys	Gln	Leu	Tyr	Phe	Ser	Ala	Arg	Gln	Gly	Glu	Leu	Gln	Lys	
				85					90					95		
Val	Leu	Leu	Met	Leu	Val	Asp	Gly	Ile	Asp	Pro	Asn	Phe	Lys	Met	Glu	
			100					105					110			
His	Gln	Ser	Lys	Arg	Ser	Pro	Leu	His	Ala	Ala	Ala	Glu	Ala	Gly	His	
			115				120					125				

Val Asp Ile Cys
130

<210> 201
<211> 120
<212> PRT
<213> Homo sapiens

<400> 201
Met Leu Val Leu Val Leu Gly Asp Leu His Ile Pro His Arg Cys Asn
1 5 10 15
Ser Leu Pro Ala Lys Phe Lys Lys Leu Leu Val Pro Gly Lys Ile Gln
20 25 30
His Ile Leu Cys Thr Gly Asn Leu Cys Thr Lys Glu Ser Tyr Asp Tyr
35 40 45
Leu Lys Thr Leu Ala Gly Asp Val His Ile Val Arg Gly Asp Phe Asp
50 55 60
Glu Asn Leu Asn Tyr Pro Glu Gln Lys Val Val Thr Val Gly Gln Phe
65 70 75 80
Lys Ile Gly Leu Ile His Gly His Gln Val Ile Pro Trp Gly Asp Met
85 90 95
Ala Ser Leu Ala Leu Leu Gln Arg Gln Phe Asp Val Asp Ile Leu Ile
100 105 110
Ser Gly His Thr His Lys Phe Glu
115 120

<210> 202
<211> 135
<212> PRT
<213> Homo sapiens

<400> 202
Arg Met Cys Ser Leu Thr Phe Tyr Ser Lys Ser Glu Met Gln Ile His
1 5 10 15
Ser Lys Ser His Thr Glu Thr Lys Pro His Lys Cys Pro His Cys Ser
20 25 30
Lys Thr Phe Ala Asn Ser Ser Tyr Leu Ala Gln His Ile Arg Ile His
35 40 45
Ser Gly Ala Lys Pro Tyr Ser Cys Asn Phe Cys Glu Lys Ser Phe Arg
50 55 60
Gln Leu Ser His Leu Gln Gln His Thr Arg Ile His Thr Gly Asp Arg
65 70 75 80
Pro Tyr Lys Cys Ala His Pro Gly Cys Glu Lys Ala Phe Thr Gln Leu
85 90 95
Ser Asn Leu Gln Ser His Arg Arg Gln His Asn Lys Asp Lys Pro Phe
100 105 110
Lys Cys His Asn Cys His Arg Ala Tyr Thr Asp Ala Ala Ser Leu Glu
115 120 125
Val His Leu Ser Thr His Thr
130 135

100252001

[illegible]

Leu	Leu	Leu	Ala	Arg	Trp	His	Ser	Ala	Ala	Phe	Lys	Val	Arg	Ala	Gly
1				5				10						15	
Ala	Arg	Gln	Glu	Leu	Ala	Met	Lys	Ser	Leu	Lys	Ser	Arg	Leu	Arg	Arg
			20					25					30		
Gln	Asp	Val	Pro	Gly	Pro	Ala	Ser	Ser	Gly	Ala	Ala	Ala	Ala	Ser	Ala
			35					40					45		
His	Ala	Ala	Asp	Trp	Asn	Lys	Tyr	Asp	Asp	Arg	Leu	Met	Lys	Ala	Ala
			50					55					60		
Glu	Arg	Gly	Asp	Val	Glu	Lys	Val	Thr	Ser	Ile	Leu	Ala	Lys	Lys	Gly
65					70					75					80
Val	Asn	Pro	Gly	Lys	Leu	Asp	Val	Glu	Gly	Arg	Ser	Val	Phe	His	Val
				85					90					95	
Val	Thr	Ser	Lys	Gly	Asn	Leu	Glu	Cys	Leu	Asn	Ala	Ile	Leu	Ile	His
			100					105					110		
Gly	Val	Asp	Ile	Thr	Thr	Ser	Asp	Thr	Ala	Gly	Arg	Asn	Ala	Leu	His
			115					120					125		
Leu	Ala	Ala	Lys	Tyr	Gly	His									
			130					135							

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<210> 204
<211> 167
<212> PRT
<213> Homo sapiens
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[illegible]

<210> 205
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 205
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 gaggaaaaaa agaaatctgc attttaattc atgttggtca aagtcgaatt actatctatt 120
 tatcttatat cgtagatctg ataaccctat ctaaaagaaa gtcacacgct aaatgtattc 180
 ttacatagtg cttgtatcgt tgcatttggt ttaatttggt gaaaagtatt gtatctaact 240
 tgtattactt tggtagtttc atctttatgt attattgata tttgtaattt tctcaactat 300
 aacaatgtag ttacgctaca acttgcctaa aacattcaaa cttgttttct tttttctggt 360
 gttttctttg ttaattcatt t 381

<210> 206
 <211> 514
 <212> DNA
 <213> Homo sapiens

<400> 206
 aaaagtaaat tgcataaaat tacatccaat ttctttctct aaaccaacat attcttcacc 60
 ttcacaaagc aaacacatgg tgcactgaaa ccgaggtggt accagcttta catactgttc 120
 tgccatttgt ggggggtgca accacaacat aagtcagaaa aaaagctatc cagcttttctg 180
 tggaaatctg tgaagtttac acttagcgat aagcctctaa gcctgaactt agcagggcta 240
 gcaaaacttt atttatttcc taactcctat tatttttagaa tggttttcaa aataatactg 300
 caagttccta attgaaatac aaaacagaac aaaaagctgt gagaaatctt ttttttctt 360
 tggctcctta aagacttgga ataatttata ttagtggtgc atacatttta ccttctacat 420
 tttgatgtac ttgctcttga aagcactaga acaaattaat tgaaataaaa cctctctgaa 480
 accatttgaa tctttgatcc taccatagag tttt 514

<210> 207
 <211> 522
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 24
 <223> n = A,T,C or G

<400> 207
 caagcttttg gtgcatagca gccngcctgg aagcattctg agtgctctgt ctgccctggt 60
 gggtttcatt atcctgtctg tcaaacaggc caccttaaat cctgcctcac tgcagtgtga 120
 gttggacaaa aataatatac caacaagaag ttatgtttct tacttttatc atgattcact 180
 ttataccacg gactgctata cagccaaagc cagtctggct ggaactctct ctctgatgct 240
 gatttgcact ctgctggaat tctgcctagc tgtgctcact gctgtgctgc ggtggaaaca 300
 ggcttactct gacttccctg ggagtgtact tttcctgcct cacagttaca ttggtaattc 360
 tggcatgtcc tcaaaaatga ctcatgactg tggatatgaa gaactattga cttcttaaga 420
 aaaaaggag aaatattaat cagaaagttg attcttatga taatatggaa aagttaacca 480
 ttatagaaaa gcaaagcttg agtttcctaa atgtaagctt tt 522

<210> 208

<211> 278
 <212> DNA
 <213> Homo sapiens

<400> 208
 aaaatgcact acccccttttt tccaacacgg agcttaaaac aaattaatga aagagtggaa 60
 aattcaaaat aagggcaaga gataaggttt tttttttttt tcctttaaga tagactcagg 120
 ataggtagat agctttcact gatgtagatg tggaataaat tattacttca ggaaaaaaat 180
 tcccaaacat cttatgaaaa agtatacaac tctacttcaa aatatgctat ttactcactg 240
 ccaaagacag ttttatttga aatcttggtt ctgtattt 278

<210> 209
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26
 <223> n = A,T,C or G

<400> 209
 cctcccaaatt ttagcagggtg ctgggnagga ccctagggag tggtttatgg gggctagctg 60
 gtgaaactgc cctttccttt ctgttctatg agtgtgatgg tgtttgagaa aatgtggggc 120
 tatggttcag gcgcacttca catgtgcaaa gatggagaaa gcactcacct acacgttttag 180
 gctcagaatg ttgattgaaa cattttgaat gatcaaaaat aaaatgttat tttt 234

<210> 210
 <211> 186
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25
 <223> n = A,T,C or G

<400> 210
 aaaataactg atggcaaaaat aaaanattta catcacatca tactgtgtaa acatgtaagg 60
 tctctgtaca aagaaatata catgcaaaaat aatgtaaaaa tttaactgaa ataataaaaag 120
 aaacaatata caaataaaaa ttatgagggtt acgaatacac atccagtttc gaatccaatt 180
 tctttt 186

<210> 211
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 211
 aaaaattggt aaaatattta agtacaaaat aagtagcttc cagcgagggtt tttataccat 60
 agtaagagca cacaatagat attactagca cacatgggtt atctgggagc gctatagcta 120
 caataaacct aattatggaa cagaaatttg cattctgttt ccagtgtac tacactccta 180
 ctttctcaaa agtctgctct attaatatca gctcagtga gtttactatg aatagtttat 240
 gtctgtgatg caaagcatta attgttctct ttttacaac atacattttt ttcataagga 300

agactggggg aaaacccaga aacatacaga gaaaaggaaa gcatcatcaa atatatgtta 360
 aaaattaaga tgatgtttac tactagtcac cctacaacaa ttt 403

<210> 212
 <211> 345
 <212> DNA
 <213> Homo sapiens

<400> 212
 cctctttatg agttcattac tgctgttcag tctcggcaca cagacacccc tgtgcaccgg 60
 ggtgtacttt ctactctgat cgctgggcct gtggttgaga taagtcacca gctacggaag 120
 gtttctgacg tagaagagct taccctcca gagcatcttt ctgatcttcc accattttca 180
 aggtgtttta taggaataat aataaagtct tcgaatgtgg tcaggtcatt tttggatgaa 240
 ttaaaggcat gtgtggcttc taatgatatt gaaggcattg tgtgcctcac ggctgctgtg 300
 catattatcc tggttattaa tgcaggtaaa cataaaagct caaaa 345

<210> 213
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 213
 aaaatgtttt attattttga aaataatggt gtaattcatg ccagggactg acaaaagact 60
 tgagacagga tggttattct tgtcagctaa ggtcacattg tgcccttttg accttttctt 120
 cctggactat tgaaatcaag cttattggat taagtगतat ttctatagcg attgaaaggg 180
 caatagttaa agtaatgagc atgatgagag tttctgttaa tcatgtatta aaactgattt 240
 ttagctttac aaatatgtca gtttgcagtt atgcagaatc caaagtaaat gtccctgctag 300
 ctagttaagg attgtttt 318

<210> 214
 <211> 462
 <212> DNA
 <213> Homo sapiens

<400> 214
 aaacacatct ggttctggca gcaagttata ttatgcattt agagcaatag gtgccctgaa 60
 agttattgtt gctttttttg tttttttttt cagtttgtgc gtgtcacttg aatcagaaac 120
 caaacacatg taaaaaata tcatcctcaa tgcccccat taactctctc tccagaagg 180
 gacaatgtta gtgaactcaa gactctcact gatgatggta ttttacaatg aaaacacaag 240
 gaaacccctt gaggtccaat tttcacatca tattctccaa atagtataat agcagctcta 300
 catgttgatg aaaagaaatt tcaatttctt cctatttgtt tttactcata tcaacattaa 360
 tatgtatctg gatattattaa tttccaaaaa gaaaatttta gttaccaa atttcagaaa 420
 ttaataaag cattatatat atgtaattag cacttatcta cc 462

<210> 215
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 215
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 atttgaaaat gcaatatgtg tggtaaatct actgtttgaa atttataatg gtctctgata 120
 tgattcgaat tttggtaact tttgaaagtt attttcccc tttagtcatg gatttctatt 180
 tgttttttaa tgttaatttt tctagaaagc atctgaattg actaggcttt tcctatataa 240

aaaactcaaa acttgtaac tctgtacttt aataaaattt 280

<210> 216

<211> 210

<212> DNA

<213> Homo sapiens

<400> 216

aaaatctctg gcttcaaagt ttcttgggga aaggctcggtt tacctcacat tttttgtttc 60
cattagtaat attctaggta cctcacaaaa tgtattatgg tgccatggct gttagttttt 120
agtgagtgct gtaggattaa ttcgaaaaata ggcagaattc cattcctccc aagggtggcaa 180
aaattagcta tactgatgta attgtcattt 210

<210> 217

<211> 398

<212> DNA

<213> Homo sapiens

<400> 217

ctggagctgc tagaacttga gatgagggca agagcgatta aagccctaata gaaagctggt 60
gatataaaaa agccagccta ggtatttaac ttgattttga attttaggta tgtttgaaca 120
aagccacatc atttaatttt gtatctaaaa tttatttggg gtcttatatg ttatttctca 180
tgtaaccctt attaggactc attttagccc taaattacct gtggctgttt ctttttattt 240
ttttgactac ttttatatta taaatgtgtg ttactgtctt atgaattcat ggcaatatag 300
ttggatagcc tggatacttt gttagatgag tatttagctg tgtctgcaaa tcttaaaagc 360
cattagcaaa gagtcgtggt atttttttct ttattttt 398

<210> 218

<211> 487

<212> DNA

<213> Homo sapiens

<400> 218

ctgccgccgg tcaggctggt taaagatcag gtcccccagg accttgcgat ttatgtcgcc 60
attctccagc aagacctcag tgccgaagac ctctacgatg cgccggtggg cagggtatcc 120
tggtctgcag acgtgccggg ccatcacgtc cacgtcaatc accgcacagc ccagtttcag 180
tggtttttaca cattatattg ttataatctc acaataacta taaattaggt agaacaggaa 240
atgagggtttg gagaagatac ttgacttata cgaccatctg tacttggtccc atagtaagga 300
gcctcaagca gagacaaagg aggaagttgc ctatgtttgta tggtttacag gccataaatg 360
aatgtcatct ttttcctccc ctgggggaaaa atgtctcaaa aatcccacca taggacatga 420
catctccaga acctctatta caaaatacac atttcctgta gaggggtaac aaatttgggt 480
taacctg 487

<210> 219

<211> 390

<212> DNA

<213> Homo sapiens

<400> 219

aaaaaataca ccacacgata caactcaata caggagtatt tcttctcaaa ttcttctagc 60
accatcaaca ttcttcaagt atctgaaata ctattaatta gcacctttgt attatgaaca 120
aaacaaaaca aggacctcag ttcatctctg tctagggtcag cacctaacaa tgtggatcac 180
actcatggga aagtgttttg aggtagttaa aacctttgga agtttgggtt ttaaacttcc 240
ctctgtggaa gatattcaaa agccacaagt ggtgcaaattg tttatgggtt ttatttttca 300

attttttat tggttttctt acaaaggttg acattttcca taacaggtgt aagagtgttg 360
 aaaaaaaagt tcaaattttt gggggagcgg 390

<210> 220
 <211> 341
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 86, 87, 88, 188, 189, 190
 <223> n = A,T,C or G

<400> 220
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 gttaaatactg tgaaatacct tttctnnnca aaaggcaaat attgaagttg tttatcaact 120
 tcgctagaaa aaaaaaaaca cttggcatac aaaatattta agtgaaggag aagtctaacg 180
 ctgaactnnn aatgaaggga aattgtttat gtgttatgaa catccaagtc tttcttcttt 240
 ttttaagttgt caaagaagct tccacaaaat tagaaaggac aacagttctg agctgtaatt 300
 tcgccttaaa ctctgggacac tctatatgta gtgcattttt a 341

<210> 221
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 221
 ccaggggggaa ttgaggggagg ctctaagcta ggggcactgc atgggtgggac aggatggccc 60
 cttgaggact gaaccctgga gagaagacaa acagtaataa taaaaacaaa taacaagtac 120
 ttttaagaatg gattgtatga cctatagtga cagatgacat cactaatact gaaagcttct 180
 tatattaata attttggcaa aatgtcattt tgtaatatag tatatgcttt ccag 234

<210> 222
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 222
 aaattttcat tgagttgtcc atctccagca tatagggctt caggagcaga gcagaccttg 60
 ttttttagtggt ttccatggga taaaatggga ttggaggagc tagaagaatt cagggtctgg 120
 tccaatctgc cagtcttctt gaaatatcga aaatacacca gggctgctat atcagagcca 180
 ccctgg 186

<210> 223
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 223
 ccataagcag ataagtagca gttcaactgg atgtctctct tctccaaatg ctacagtaca 60
 aagccctaag catgagtga aaatcgttgc ttcagaaaag acttcaaata acacttactt 120
 gtgcctgggt gtgctggatg gtatatctct tgtcattttt cttcatggga gaaacagccc 180
 acagagctca ccaacaagta ctccaaaact aagtaagagt ttaagctttg agatgcaaca 240
 agatgagcta atcgaaaagc ccatgtctcc tatgcagtac gcacgatctg gtctgggaac 300

agcagagatg aatggcaaac tcatagctgc aggtggctat aacagagagg aatgtcttcg 360
 aacagtcgaa tgctataatc cacatacaga tcaactggcc tttcttgctc ccatgagaac 420
 accaagagcc cgattttcaaa tggctgtact catgggccag ctctatgtgg taggtggatc 480
 aaatgg 486

<210> 224
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 224
 aaatgttcac tatgtcattt agtgtccaac tttacggata gggtgactat ctaaataaggc 60
 atttttagtc attaaaaaaa aatctagtca ccaggaggat ccctataact caaaataact 120
 tgtttgtaaa agaaaatttg tttacttacc cattagtaag ttcctgcata ttcattataa 180
 gatggcaaatt caaacttttc taggatgaag acagcttatt ttttaagttgt atagtcttag 240
 ttggtttagg gtctcaattt taattaataa aatacttggg ttttatttgc ttgtcctttt 300
 gaattcctgt ttttaataatt tt 322

<210> 225
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 225
 aaatgtagga ataaaatggc tggcatctaa gcacttttagt aaaagagggt tttacaaata 60
 actaaggatt gtagagcttc cttctctttt ttttctttt tctttctttt gttttacatg 120
 aactcaactt attcctaaca tttgtctacc tcaaagaaat ttcaagatta tttagataac 180
 atggatatgt gccaaatcct ttgagctgtt aagatgataa tttcctgctt tctctctaca 240
 tcttctcctc ccaactccctc ctttgggtgtg aatattgggt tcccaattaa gacctttttt 300
 ttttttttcc agtttgtttt agcttattat aggttttggg ggaactttgc cattttgtaa 360
 tctttcaaatt cattcttcac ccttctctac atcagcttcc tgcttttccc agtggttttac 420
 tgtaaattgt gtagcatatg acaaactctt agctgacttt cctcttccact gatgtcatct 480
 tgagctctt 489

<210> 226
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 226
 caagggccca ccgcagagca cacctatgct atggggagcc ctgctggcag ccccgagagc 60
 catgccatgg cctgcaggag ccaggctcct gtgtggatga agtccctctt cctctgtgcc 120
 ttgatccctt ggggggtgct ttggtcatct cttctgtcct ttctgtctc tgaaatagtc 180
 atcaactccc ttgactctct ctgttcaagt cttctcagtc tgcagagtta acttctgtaa 240
 ggagtttaat ctgggggttcc aagaaaacaa gttccttgtt aacatagcac tgactttgca 300
 acaatagaaa actaacaatt gagcaacaat ataaagagta gaggtagttc tcattgggtg 360
 taacttcaac ccattctgct tgtgggttaga atttataa 398

<210> 227
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 227

ctgctgcata gaaaatatgc taacatacaa cagtcaagtt taagcctgtg catagagaag 60
ataaagcact tatggtaact gcaaattggt aagagtcctt aagggttgta caacctagta 120
tggtgccata agggaaaact gtagtagaaa tggtaggac aaacaataaa gtagaaacag 180
gggggaaact tgagaagaga agaaagaagc aagaaaaaaa gactttcaat tgtataaaat 240
tcacaaacca gtaaagtata aagacaccat ggagaaatgg ttaactctgc cccaaacacc 300
caacagcaaa caaaaccaga atgaataagc ctttggcaga caattttaga aatttgaatg 360
ttacatttct caataattca caaacaatat attatatggt atattttatat taaatattgg 420
gaaaccaatg ttgtaaattt gatgcttata atgcttttagc caatgagagc acaatgatat 480
caatcaagct aaatgaatgc tgggtgttatc acaacagtgc tcatttatga aacaa 535

<210> 228
<211> 301
<212> DNA
<213> Homo sapiens

<400> 228
aaacaataaa caccatcaac cttattgact ttattgtccc ttaaattata ttgactgttg 60
tgattccatc aagtttgtag actcttttct ctccctgttt tgcagcaaca aattgcgaag 120
tgcttttggt tgtttgtttt cgtttgggta aagcttattg ccatgctggg gcggctatgg 180
agactgtctg gaaggcttgg aatggtttat tgcttatggt aaaatttgcc tgatttctta 240
caggcagcgt ttggaaacct tttattatat agttgtttac atacttataa gtctatcatt 300
t 301

<210> 229
<211> 420
<212> DNA
<213> Homo sapiens

<400> 229
aaagttgctt tgctggaagt ttttataagg aatctcagat taaaccttta gaagtttaat 60
tgacactagg aagccaaacc aaggctgact tcagactttg tttgtagtac ctgtgggttt 120
attacctatg ggtttatata ctcaaatacg acattctagt caaagtcctg gtaataaac 180
caatgttttc aaatgtattc tgtcatacaa agagcagatt tttattgaac ttgtgcaata 240
actatattac catacaatat aaatattcat gaatagtctt ccaagtctgg agcgaccaca 300
tagggagaaa atgcaaatgt ctcaattttt gttcacaaaa gtatatatta tcaaattgct 360
gtaagctgtg gatagcttaa aagaaaaaaa gtttcctgaa atctgggaaa caagacattt 420

<210> 230
<211> 419
<212> DNA
<213> Homo sapiens

<400> 230
gtgaagtcct aaagcttgca ttccaccagc ttctacaata gccggcttat tactagagca 60
gacagatagc accttcagca ctctgcttgt ggtccacagt agtttttcgt aagtatagg 120
cctcattata ttactaaag cttgggggtcc accactagcc agtatgatga gcttgctttc 180
ttggttgcca taagctaaaa tttgaaggca gtctgtcgta atagccaaga atttaacatt 240
tgttttggtg agcaaggcaa ccattttctg cagcccacca gctaaacgca ctgccatttt 300
agctccttct tgatgtaata aaagggttgg gagagttgta atggcataaa acaacacaga 360
atccactggg gaaccaagca ttttcaccag ggcaggaatg cctccagact taaagatgg 419

<210> 231
<211> 389

<212> DNA
<213> Homo sapiens

<400> 231

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ttgttcagag ccctggtgga tcttgcaatc cagtgccta caaaggctag aacactacag 60
gggatgaatt cttcaaatag gagccgatgg atctgtggtc ctttgggact catcaaagcc 120
ttggttttagc attttgtcag ttttatcttc agaaattctc tgcgattaag aagataattt 180
attaaagggtg gtccttccta cctctgtggt gtgtgtcgcg cacacagctt agaagtgcta 240
taaaaaagga aagagctcca aattgaatca cctttataat ttaccattt ctatacaaca 300
ggcagtggaa gcagtttcag agaactttt gcattgcttat ggttgatcag ttaaaaaaga 360
atgttacagt aacaaataaa gtgcagttt                                     389

```

<210> 232
<211> 397
<212> DNA
<213> Homo sapiens

<400> 232

```

ccaggataat atacacaggt ttgcagctaa aactgtgcac agtgggtcat tgatgctagt 60
cacagtggaa ctgaagggaag gctctacagc ccagcttata ataaacactg agaaaactgt 120
gattggctct gttctgctgc gggaactgaa gcctgtcctg tctcaggggt aacctgctta 180
catctggact ttagaatctg gcacacaaca aaagtgcctg gcattccacta ctgctgcctt 240
tcatttataa taatagccct tccatctggc agtgggggaa gaatacactc ttgacattct 300
tgtctcctgc tttagaatgc tagtgtgtat ctatcatgta tgcaataact tccccctttt 360
tgctttgcta accaaagagc atatatatta ctgtcag                                     397

```

<210> 233
<211> 508
<212> DNA
<213> Homo sapiens

<400> 233

```

cgaggagtgc cttaagtgcg aggacctcaa agtgggacaa tatatttgta aagatccaaa 60
aataaatgac gctacgcaag aaccagttaa ctgtacaaac tacacagctc atgtttcctg 120
ttttccagca cccaacataa cttgtaagga ttccagtggc aatgaaacac attttactgg 180
gaacgaagtt ggttttttca agcccatatc ttgcccgaat gtaaatggct attcctacaa 240
agtggcagtc gcattgtctc tttttcttgg atggttggga gcagatcgat tttaccttgg 300
atacctgct ttgggtttgt taaagttttg cactgtaggg ttttgtggaa ttgggagcct 360
aattgatttc attcttattt caatgcagat tgttggacct tcagatggaa gtagttacat 420
tatagattac tatggaacca gacttacaag actgagtatt actaatgaaa catttagaaa 480
aacgcaatta tatccataaa tatttttt                                     508

```

<210> 234
<211> 358
<212> DNA
<213> Homo sapiens

<400> 234

```

aaatgttggg attcaaaacc aaagatatata ccgaaaggaa aaacagatga gacataaaat 60
gatttgcagg atgggaaata tagtagttta tgaatgtaaa ttaaattcca gttataatag 120
tggctacaca ctctcactac acacacagac ccacagctcc tatatgccac aaacacattt 180
ccataacttg aaaatgagta ttttgcatat ctgagttcag gatatgtttt ttacaagtta 240
atcctaaagt cataaagcaa gaagctattc atagtacaag attttatttg ctaagcttta 300
caaattaaac tctaaaaaat tattacaatg atactgaaag atattttatt ggcctttt 358

```

<210> 235
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 235
 gaagaaagtt agatttacgc cgatgaatat gatagtgaaa tggatttttg cgtagggttg 60
 gtctagggtg tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa 120
 tacagctcct attgatagga catagtggaa gtgagctaca acgtagtacg tgtcgtgtag 180
 tacgatgtct agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag 240
 aaagatgaat cctagggctc agagcactgc agcagatcat ttcattattgc ttccgtggag 300
 tgtggcgagt cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcgga 360
 ggtgaaatat gtcgtgtgt ctacgtctat tcctactgta aatatatggt gtgctcacac 420
 gataaacct aggaagccaa ttgatatcat agctcagacc atacctatgt atccaaatgg 480
 tt 482

<210> 236
 <211> 149
 <212> DNA
 <213> Homo sapiens

<400> 236
 cctcttcatt gttcacatgt cacaggagga ggctctgagc aaaggccact ggcaagttag 60
 ggcaacacca agaaggctct gcggagagac tccctgtggg ttggggcctg gcaggaacgg 120
 tgctgtgga ctgtttatgg tctgtccag 149

<210> 237
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 237
 gaagctaaat ccaaagaaat atgaagggtg ccgtgaatta agtgatttta ttagctatct 60
 acaaagagaa gctacaaacc cccctgtaat tcaagaagaa aaaccaaga agaagaagaa 120
 ggcacaggag gatctctaaa gcagtagcca aacaccactt tgtaaaagga ctcttccatc 180
 agagatggga aaaccattgg ggaggactag gacccatatg ggaattatta cctctcaggg 240
 ccgagaggac agaattgata taatctgaat cctgttaaat tttctctaaa ctgtttctta 300
 gctgcactgt ttatggaaat accaggacca gtttatgttt gtggtttttg gaaaaattat 360
 ttgtgttggg ggaaatgttg tgggggtggg g 391

<210> 238
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 238
 aaaaaacaaa acaatgtaag taaaggatat ttctgaatct taaaattcat cccatgtgtg 60
 atcataaact cataaaaaata attttaagat gccggaaaag gatactttga ttaaataaaa 120
 aactcatgg atatgtaaaa actgtcaaga ttaaaattta atagtttcat ttatttgta 180
 ttttatttgt aagaaatagt gatgaacaaa gatccttttt catactgata cctggttgta 240
 tattatttga tgcaacagtt ttctgaaatg atatttcaaa ttgcatcaag aaattaaaat 300
 catctatctg agtagtcaaa atacaagtaa aggagagcaa ataaacaaca tttggaaaaa 360
 aaaaaaaaaa aaaa 374

<210> 239
 <211> 200
 <212> DNA
 <213> Homo sapiens

<400> 239
 aaagatgtct ttgaccgcat atgtactgga aatttcaaac gtggatcttc ccaggttgta 60
 gtcttttgtgt tatgatcaat gaagaagggc cggccgtttg gcgctatcct catttcccag 120
 ccgggtggca agaagctctg tgtgactttg tgttgtggtt tgggggagtt gtaaggtgat 180
 ggctgtgggg actgtgggtt 200

<210> 240
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 67, 71, 76, 99, 224
 <223> n = A,T,C or G

<400> 240
 ctggtaaact gtccaaaaca aggttccaaa taacacctct tactgattta ccctacccat 60
 acatatncca natagntttt gatcaaaaac atgaaatana tccacctgct tattttaagc 120
 atattaaaaa ggaaactaat tggaccattt tctatttgtc tattttatac aaaaaggcta 180
 cacaattgat acactctatt cagataacaa tcaattagag tgantatgaa ttactggcga 240
 caccatcact caattcttaa aaattagaaa ttgctgtagc agtattcact ataacttaac 300
 actaccgaga gact 314

<210> 241
 <211> 375
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 302, 316, 328, 329, 333, 340, 343, 354, 355, 362
 <223> n = A,T,C or G

<400> 241
 ccaagtcctt ggagttatag gatattcatt acttccctctc attgtaatag ccctgtact 60
 tttggtggtt ggatcatttg aagtgggtgc tacacttata aaactgtttg gtgtgttttg 120
 ggctgcctac agtgcctgtt cattgttagt ggggtgaagaa ttcaagacca aaaagcctct 180
 tctgatttat ccaatctttt tattatacat ttatcttttg tcgttatata ctgggtgtgtg 240
 atccaagtta tacatgaata gaaaaagatg gtgttaaatt tgtgtgtagg ctgggaattc 300
 tngctaaagg aatggnaaaa aacctgtntt tgnaaaattn acntgtccca aagnnaagga 360
 anctaaacgc ttttt 375

<210> 242
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 242

```

aaaggcattc tctgatttac atgagaattg agaaactgag atgtatgatt tgtctgttag 60
tcaatttcac accctttcat tctcataagc cccaaatttt gctcagttaa ggagcttgct 120
ttaggccac ctatgtaagt ctgttatact agctaattgtg cccatttgaa tagttcaagg 180
gtcagctaatt gctctgagct tcatggctcc agtataaaga acaaatttaa caaaattaag 240
ctgttactgt agccgagtta cccttctgct ccacacatat gtagtgggat cttgcaggat 300
ttccatagtg ccaattatca aaggccttga ctacttagca ttgctgtatt acagatgtgc 360
aaactgaggc actgaaaagt caaattt 387

```

<210> 243

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 30, 344, 510

<223> n = A,T,C or G

<400> 243

```

aaacccaaag gacgaagaaa aaacactttn aaaaaaaaaa aaaaaaaaga aaaacccaaac 60
catattttgc cacatgtgag agtacgggtca agcagtatatt acaaaaagggt taacgggaaca 120
acactctgac acatgctctg agaatactgg gactgctgtt tcaaaaaaaa aggttcacaaac 180
ttattgtcac agcatcatca caaaatagag gatcaccatt ggtttgcttg gcttttcttt 240
ttttttttcc cccaagttag gacctaaactc caaataatac aatagaatat gcaaattatc 300
ttcacatcaa gagtacccca agaaaaacga aatccatggc acanacactg tacaaggggtg 360
cagggcaggg ctctgagggg cccaaacccc attttgccaa ctcgattttc tagcattgaa 420
gggagcaagg ggtcaggcat atgatggaga tgatactgaa atgatttatc caaaatccat 480
gcaaatacaag ttctttggat agaggtgaan aacttggaca tggctgtttc aggcag 536

```

<210> 244

<211> 397

<212> DNA

<213> Homo sapiens

<400> 244

```

ccaggataat atacacaggt ttgcagctaa aactgtgcac agtgggtcat tgatgctagt 60
cacagtggaa ctgaagggaag gctctacagc ccagcttatac ataaacactg agaaaactgt 120
gattggctct gttctgctgc gggaaactgaa gcctgtcctg tctcaggggt aacctgctta 180
catctggact ttagaatctg gcacacaaca aaagtgcctg gcatccacta ctgctgcctt 240
tcatttataa taatagccct tccatctggc agtgggggaa gaatacactc ttgacattct 300
tgtctcctgc tttagaatgc tagtgtgtat ctatcatgta tgcaataactt tccccctttt 360
tgctttgcta accaaagagc atatatattta ctgtcag 397

```

<210> 245

<211> 508

<212> DNA

<213> Homo sapiens

<400> 245

```

cgaggagtgc cttaagtgcg aggacctcaa agtgggacaa tatatttgta aagatccaaa 60
aataaatgac gctacgcaag aaccagttaa ctgtacaaac tacacagctc atgtttcctg 120
ttttccagca cccaacataa cttgtaagga ttccagtggc aatgaaacac attttactgg 180
gaacgaagtt ggttttttca agcccatatc ttgccgaaat gtaaattggct attcctacaa 240

```

```

agtggcagtc gcattgtctc tttttcttgg atggttggga gcagatcgat tttaccttgg 300
ataccctgct ttgggtttgt taaagttttg cactgtaggg ttttgtggaa ttgggagcct 360
aattgatttc attcttattt caatgcagat tggtggacct tcagatggaa gtagttacat 420
tatagattac tatggaacca gacttacaag actgagtatt actaatgaaa catttagaaa 480
aacgcaatta tatccataaa tattttttt 508

```

```

<210> 246
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<400> 246
aaatgtttgt attcaaaacc aaagatataa ccgaaaggaa aaacagatga gacataaaat 60
gatttgcaag atgggaaata tagtagttta tgaatgtaaa ttaaattcca gttataatag 120
tggtacacac ctctcactac acacacagac cccacagtcc tatatgccac aaacacattt 180
ccataacttg aaaatgagta ttttgcataat ctcaagttcag gatatgtttt ttacaagtta 240
atcctaaagt cataaagcaa gaagctattc atagtacaag attttatttg ctaagcttta 300
caaattaaac tctaaaaaat tattacaatg atactgaaag atattttatt ggcctttt 358

```

```

<210> 247
<211> 673
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 605, 618, 635, 644, 651, 660, 668
<223> n = A,T,C or G

```

```

<400> 247
gaagaaagtt agatttacgc cgatgaatat gatagtgaaa tggatttttg cgtagggtttg 60
gtctagggtg tagcctgaga ataggggaaa tcagtgaatg aagcctccta tgatggcaaa 120
tacagctcct attgatagga catagtggaa gtgagctaca acgtagtacg tgtcgtgtag 180
tacgatgtct agtgatgagt ttgctaatac aatgccagtc aggccaccta cggtgaaaag 240
aaagatgaat cctagggctc agagcactgc agcagatcat ttcattattgc ttccgtggag 300
tgtggcgagt cagctaaata ctttgacgcc ggtggggata gcgatgatta tggtagcgga 360
ggtgaaatat gtcgtgtgtg ctacgtctat tctactgta aatatatggt gtgctcacac 420
gataaacctt aggaagccaa ttgatatcat agctcagacc atacctatgt atccaaatgg 480
ttcttttttt ccggagtagt aagttacaat atgggagatt attccgaagc ctggtaggat 540
aagaatataa acttcagggg gaccgaaaaa tcagaatagg tgttggtata gaatgggggtc 600
tctnctccg cggggtcnaa gaagggtggtg ttgangttgc cggnetgtta ntagtatagn 660
gatgccanca gct 673

```

```

<210> 248
<211> 149
<212> DNA
<213> Homo sapiens

```

```

<400> 248
cctcttcatt gttcacatgt cacaggagga ggctctgagc aaaggccact ggcaagttag 60
ggcaacacca agaaggctct gcggagagac tccctgtggg ttggggcctg gcaggaacgg 120
tgccgtgtga ctgtttatgg tctgtccag 149

```

```

<210> 249

```

<211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 450
 <223> n = A,T,C or G

<400> 249
 gaagctaaat ccaaagaaat atgaagggtgg ccgtgaatta agtgatttta ttagctatct 60
 acaaagagaa gctacaaaacc cccctgtaat tcaagaagaa aaacccaaga agaagaagaa 120
 ggcacaggag gatctctaaa gcagtagcca aacaccactt tgtaaaagga ctcttccatc 180
 agagatggga aaaccatttg ggaggactag gaccatcatg ggaattatta cctctcaggg 240
 ccgagaggac agaattggata taatctgaat cctgttaaat tttctctaaa ctgtttctta 300
 gctgcactgt ttatggaaat accaggacca gtttatgttt gtggtttttg gaaaaattat 360
 ttgtgttggg ggaaatgttg tgggggtggg gttgagtttg gggatatttc taattttttt 420
 tgtacatttg gaacagtgc aataaatgan accccttt 458

<210> 250
 <211> 374
 <212> DNA
 <213> Homo sapiens

<400> 250
 aaaaaacaaa acaatgtaag taaaggatat ttctgaatct taaaattcat cccatgtgtg 60
 atcataaact cataaaaaata attttaagat gccggaaaag gatactttga ttaaataaaa 120
 acactcatgg atatgtaaaa actgtcaaga ttaaaattta atagtttcat ttatttgta 180
 ttttatttgt aagaaatagt gatgaacaaa gatccttttt catactgata cctggttgta 240
 tattatttga tgcaacagtt ttctgaaatg atatttcaaa ttgcatcaag aaattaaaaat 300
 catctatctg agtagtcaaa atacaagtaa aggagagcaa ataaacaaca ttggaaaaaa 360
 aaaaaaaaaa aaaa 374

<210> 251
 <211> 356
 <212> DNA
 <213> Homo sapiens

<400> 251
 aaagatcttc tctaacaagc tatgggaatt tggcttcata ctctttcttt gcaacagcag 60
 tgttctgggt gataattttg aattgatacc tgttcctttt tctgggtttt gttggctttt 120
 tgaaaaattg tctttcctta tcattggttg gaggccttgg agcaaagtaa catttttttg 180
 aaaagaggac agaaaaattg aactacagct tgagaacgta ttcttttttt cctactttgt 240
 tattgcaaat tgaggaatca cttttaactg ttttaggtgt gtgtgtccag agtgagcaag 300
 gattatgttt ttggattgtc aaagaggatg cttagtctta aaataaaaaat aaattt 356

<210> 252
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 252
 ctggtaaact gtccaaaaca aggttccaaa taacacctct tactgattta ccctacccat 60
 acatatccca aatagttttt gatcaaaaac atgaaataga tccacctgct tatttttaagc 120

```

atattaaaaa ggaaactaat tggaccattt tctatttgtc tattttatac aaaaaggcta 180
cacaattggt acacttttatt cagattacaa ttaattagag tgattatgaa ttagtggttct 240
acaccattac tcaattctta aaaattagaa attgctgtag cagtattcac tataacttaa 300
cactacgaga gacttaaaaa acagttactg caaaaaaaaa aaagagctac ttcaaagcaa 360
gcaaagtcag taccattaca gatattctta aaaaaaaaaa aaaatttaac aagcaaggct 420
agggtttgat aaattccatc ttgtgatcca ttcttgtgca ttcttcactt cttgagtcac 480
tccc 484

```

```

<210> 253
<211> 379
<212> DNA
<213> Homo sapiens

```

```

<400> 253
aaaaagcgct tagacttccc tttccatctg gaacatgtaa aattttgcag caacagggtt 60
tctccaattc cttcagcaag aattcccagc ctacacacaa atttaacacc atctttttct 120
attcatgtat aacttggatc acacaccagt atataacgac aaaagataaa tgtataataa 180
aaagattgga taaatcagaa gaggcctttt ggtcttgaat tcttcaccca ctaacaatga 240
agcagcactg taggcagccc aaaacacacc aaacagtttt ataagtgtag acaccacttc 300
aaatgatcca accacaaaaa gtacaggggc tattacaatg agaggaagta atgaatatcc 360
tataactcca aggacttgg 379

```

```

<210> 254
<211> 387
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 66
<223> n = A,T,C or G

```

```

<400> 254
aaatttgact tttcagtgcc tcagtttgca catctgtaat acagcaatgc taagtagtca 60
aggccnttga taattggcac tatggaaatc ctgcaagatc ccactacata tgtgtggagc 120
agaagggtaa ctcggttaca gtaacagctt aattttgtta aatttggttct ttatactgga 180
gccatgaagc tcagagcatt agctgaccct tgaactattc aaatgggcac attagctagt 240
ataacagact tacataggtg ggcctaaagc aagctcctta actgagcaaa atttggggct 300
tatgagaatg aaagggtgtg aaattgacta acagacaaat catacatctc agttttctca 360
ttctcatgta aatcagagaa tgccttt 387

```

```

<210> 255
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 30
<223> n = A,T,C or G

```

```

<400> 255
aaatgtcttg tttccagat ttcaggaaan ttttttctt ttaagctatc cacagcttac 60
agcacctttg ataaaatata cttttgtgaa caaaaattga gacatttaca ttttctccct 120

```

atgtggtcgc tccagacttg ggaaactatt catgaatatt tatattgtat ggtaatatag 180
 ttattgcaca agttcaataa aaatctgctc tttgtatgac agaata 225

<210> 256
 <211> 544
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31, 445, 518
 <223> n = A,T,C or G

<400> 256
 ccttgcttaa agcccagaag tggtttaggc ntttggaaaa tctggttcac atcataaaga 60
 acttgatttg aaatgttttc tatagaaaca agtgctaagt gtaccgtatt atacttgatg 120
 ttggtcattt ctcagtctca tttctcagtt ctattatttt agaacctagt cagttcttta 180
 agattataac tggctctaca ttaaaataat gcttctcgat gtcagatttt acctgtttgc 240
 tgcagagaac atctctgctt aatttaccaa agccagacct tcagttcaac atgcttcctt 300
 agcttttcat agttgtctga catttccatg aaaacaaagg aaccaacttt gttttaacca 360
 aactttgttt gggttacagtt ttcaggggag cgtttcttcc atgacacaca gcaacatccc 420
 aaagaaataa acaagtgtga caaanaaaaa aacaaaccta aatgctactg ttccaaagag 480
 caacttgatg gtttttttta atactgagtg caaaaggncn cccaaattcc tatgatgaaa 540
 tttt 544

<210> 257
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 257
 aaatgtcttg tttccagat ttcaggaaac tttttttctt ttaagctatc cacagcttac 60
 agcaatttga taaaatatac ttttgtgaac aaaaattgag acatttacat tttctcccta 120
 tgtggtcgct ccagacttgg gaaactattc atgaatattt atattgtatg gtaatatagt 180
 tattgcacaa gttcaataaa aatctgctct ttgtatgaca gaatacattt gaaaacattg 240
 gttatattac caagactttg actagaatgt cgtatttgag gatataaacc cataggtaat 300
 aaaccacag gtactacaaa caaagtctga agtcagcctt gggttggtt octagtgtca 360
 attaaacttc taaaagttta atctgagatt ccttataaaa acttccagca aagcaacttt 420

<210> 258
 <211> 736
 <212> DNA
 <213> Homo sapiens

<400> 258
 aaacaaaatg ctaaacctaa aaacattggt ctgtcagttc ccaaattaaa tctacttaga 60
 acaaaaaaca aaatttatag ctcggtcaca tactacttaa ataattattg tcaggcatct 120
 ctaaaatcct ccatgttttc aagtatggaa atagaactca aatattccac aatacagtac 180
 taaacagatg gagtatttag gaaagacttt gttgtcatat ggcacaatat taatattttg 240
 ttgcttcaat acgttttgaa ataaatatca gatttttgtt ttttttctt aaaagaccaa 300
 aattataatc tacattaaga taattctgac tgtggttaag acttaagagt gtaaaataca 360
 acatcaatat tttatcacaa aagtaaagct ggtaacaaat tataaaagga gccagtactc 420
 tactgagaca ggctcggaga ttaaagctca tcatgataga aatagtcac atggagctgt 480


```

ctgccataat ctgtggcttc actggtgaga aacaagtccg ggttttccag aatctcttct 540
tcagagagct ttttgtcacc attcaaatcc atttcatcaa ttagatgaag cgcctcctct 600
tgtgcaatgc cctgattatt aggtctaccc aaggtaacag ctcttgggga tcaagcctgc 660
catcgttatc tttgtcataa tcattcaccc aatctgtctt tctcacaagt atcccattct 720
ggatcttcat ttgcag 736

```

```

<210> 259
<211> 437
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 32
<223> n = A,T,C or G

```

```

<400> 259
aaaaccatac tgaatcatt taccaaataa cnaagatctt aatctaaaag atagtgaata 60
catcatcatc atgaaatctg gttttatgtg ctctatgaag tacttggaga attgcttttt 120
tatttttctt ttgctttatt aggtcacaca aaacagaatg aattagcaga aaaatgtatg 180
ttataaaaca gcatttacta cttcaattta atttttttta ctaacaattg tggacctttt 240
tgatgacact tatgtatggt ttttaataaat tatgtactta ttagtactta atgagccctt 300
cctgcctcaa tataaaatta ctaaacttgg agaattacag attttattgt aggccctgat 360
gttagtcact ttggagaagc taaaaatttg gaaatgatgt aattcccact gtaatagcat 420
agggattttg gaagcag 437

```

```

<210> 260
<211> 592
<212> DNA
<213> Homo sapiens

```

```

<400> 260
tttttttttt gaaaaatata aaatttttaaat aaaggctaca tctcttaatt acaataatta 60
ttgtaccaag taatttttct taaatgaact ctttataatg cataatttac agtataagta 120
gaacaaaatg tcattgacaaa agtcattgag tacaagactt gtaataaaaa ggcataaaat 180
atatttatac ataaacccct ttcaaaaaac aagggaagc ttgagccctc aatatagggc 240
gacacacgga gcgggtgacc gtgcaggtag aggtactgta ctgattttaa gtcaagcact 300
agagatagtg gattaatact cttttgccgt acactatata cagatgtata gtacaagtaa 360
caatggcaaa cagaatgtac agattaactt aacacaaaaa cccgaacatc aaaatgaagg 420
tgtgtggagg aaagggtgctg ctgggtctcc ctacaactgt tcatttcttt gtggggcagg 480
gggtagttcc tgaatggctg tgggtccaatg actaatgtaa aacaaaaaca gaaacaaaaa 540
aaacaaggaa ctgtcatttc cacgaaagca cagcggcagt gattctagca gg 592

```

```

<210> 261
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<400> 261
gtggcagggc ccagccccga accagacaag ggaccctca aggagcttca ttctagcatg 60
agaaaattga gaagtaaacc agaaagttac agaattgtctg aaggggacag tgtgggagaa 120
tccgtccatg ggaaaccttc ggtggtgtac agatttttca caagacttgg acagatttat 180
cagtctggc tagacaagtc cacacctac acggctgtgc gatgggtcgt gacactgggc 240
ctgagctttg tctacatgat tcgagtttac ctgctgcagg gttggtacat tgtgacctat 300

```

```
<210> 262
<211> 239
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 32  
<223> n = A,T,C or G
```

```
<400> 262
taactttgat gacaaaaatct aaaatttaaag anttagtctt aaaagcctat agtgacttgt 60
ttacttgcac aaataaatatt ttcacttagt acaggctatt aatataagta atgagaattt 120
aagtattaac tcaaaaaaaag atagaggctc caaacttttc taagaaatta atgcattttc 180
aaagtaataa tataatcaat ctgtaagtca aaagtaattt catattcatt gccaaattt 239
```

```
<210> 263
<211> 376
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 27, 32, 65, 362  
<223> n = A,T,C or G
```

```
<400> 263
aaaaaaaaa aaaaaaaatt cctgtgngtt tnttagagga aaaaaagaaa aaccccaact 60
tttancactg atactacata ttgctctggt aaagaatttt ctctgccaaa aaaaagaaaa 120
aacaaaaaaa cgcttaaagc tggagtttga cattctgctt tcagatgctg tctttttatt 180
agtgagtgat gatggtttgc taataatcaa taggtaataa ttttttgtaa tcccatcaag 240
tggctcata tgtttctgct ctctcgtgac tgtgttaatg tttaactggt gtaccttaaa 300
gccgaaatca gtaactatgc atactgtaac caaggtattg ggcttacaga gttgtttggt 360
gnataaaagaa aattttt                                     376
```

```
<210> 264
<211> 207
<212> DNA
<213> Homo sapiens
```

<400> 264							
aaattagcat	tccacaaaata	tacaggtaat	ttaataatta	ttgtgcatga	atacatacac		60
aatgcttata	tatacaaatt	ccagtttgtt	ttcatgtgct	ggcaagggat	ttgtatacaa		120
tcataagctg	tgttcatatt	ggtcccattg	aatattcaca	atacaaaaagc	acaaaagaac		180
cattgattta	caaaaaggaaa	tctatttt					207

```
<210> 265
<211> 388
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> 1, 31, 65, 68
 <223> n = A,T,C or G

<400> 265
 naactgcact ttatttggtta ctgtaacatt nttttttaac tgatcaacca taagcatgca 60
 aaagnccnct gaaactgctt ccactgcctg ttgtatagaa atgggttaaata tataaagggtg 120
 attcaatttg gagctccttc cttttttata gcacttctaa gctgtgtgcg cgacacacac 180
 cacagaggta ggaaggacca cctttaataa attatcttct taatcgaga gaatttctga 240
 agataaaact gacaaaatgc taaaccaagg ctttgatgag tcccaaagga ccacagatcc 300
 atcggtcctt atttgaagaa ttcattccct gtagtggtct agcctttgta gggcactgga 360
 ttacaagatc caccagggtt ctgaacaa 388

<210> 266
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32
 <223> n = A,T,C or G

<400> 266
 aaatacagag tcaaaagatg atttataaaa tntaaaacat tttctgcttg gccgtatttg 60
 aagacaagct gaatacatat ctatgttctg aataagtcca ctatggatat atataggaag 120
 agatatacat atatccatcc acagatacac acacacatat atatttctgc atgtatatat 180
 acataattct ttctatagtt acaggaaata cttcttctat aattctgatt ttgactccca 240
 tcctccacca ttactcatt cactcattac ctaaatcttg gctttctttc ctatattgta 300
 aataatccat ccaaacttct agccagtact gtcaggaggg ttcttgctcg agtgagctgt 360
 taatactatt ttccactgac aacttctgca catcgaggac acagtgtatc tgaagactcc 420
 gctgtatact tccaacaacg ggggcatttt tctttcgtag tcggcatgac aattacttta 480
 taggaagact cttcacgaat atcaccacct tctaagttga tgaggaattt ccctttaagc 540
 tcgattacat ctgcagtcatt ctctcgtggt tcctgaccag taaagttgac tcagaagcca 600
 tcattaattc attcaa 616

<210> 267
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 267
 ccattatgta tgtattttct tgaaaaatac ttatttcagc tacttatttt taatagttac 60
 ttattcttgt tgtattgtca tttgagtttt gtatatattt ttgatattaa ccccttgta 120
 catgtataat ttgcaaatat tttctccctt tttttagttg tcacattctg ttcatgtat 180
 cagattctgt gcagcagctt ttttaatttg agtgatctga ctgacttggt cttccttttg 240
 tgtcctggga tatttaggtt aaatcaaaaa acttgctgcc cagaccaatg ttatggggct 300
 ttcactctat tttttggttag tagtagttta agagtttttag g 341

<210> 268
 <211> 367
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 31, 66

<223> n = A,T,C or G

<400> 268

```

ttgtagattg gaatagcaaa agtgaatgct ntgacaaaaa tttttgccct cctaaataaa 60
gacgtntcct tctagagagc aaatctatca taaaatgtca aaactagaag agaataaaaat 120
gaaaggaaaa aacctagaaa aatatcctaa aatatcaaat gcagtcattt ctaaataataa 180
gccataatta tagctttacc tattgtttctt attgttccta tgctgcttct acaatgttac 240
atcaactata cttagcttta ctctcccaaa atcttgggtga tgaagccttc tgagtgtgct 300
ttccaatgtg ccagaaccag aagggcattc caaggcttcc ccacatttcc tccatttacg 360
gagacag                                     367

```

<210> 269

<211> 270

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 29, 33, 62, 65, 68, 70, 264

<223> n = A,T,C or G

<400> 269

```

caaatctctc cctcactaga cgtaagccnt ttntcactc tctcaatctt atgcatcata 60
gnaangcngn tgagggtggat taaaccaaac ccagctacgc aaaatcttag catactcctc 120
aattaccac ataggatgaa taatagcagt tctaccgtac aaccctaaca taaccattct 180
taatttaact atttatatta tcctaactac taccgcattc ctactactca acttaaaactc 240
cagcaccacg accctactac tatntcgac                                     270

```

<210> 270

<211> 368

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 32

<223> n = A,T,C or G

<400> 270

```

ctgaatcatg aataacacta tataatagag tntaaggaac acaagcatta gatgtgatcc 60
ttgccccata cccttagatt atgtcagact aaagctgaca attctgccag gctctgaacc 120
cctagtgtcc ccaacccaaa tcttgaagc aaagaatatg ccctgtcata caactttgta 180
caagttgtag taaaacaaag cttaagtttt ctcatctttc tacagcaaatt gggtcagttat 240
ttaataaaca ctaaaatgct cctaagaatc cattttgagt ttgtttacca aacacattgt 300
gcaagaactg actacacaaa aagtttcctt gaaatttggg ccacaaattc acttaagggtt 360
ggaaattt                                     368

```

<210> 271

<211> 313

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 67, 68
<223> n = A,T,C or G

<400> 271
aaatttatat aaaactctgt acatgttcac tttattattg cataaacagc ataatcttca 60
agacaanngt ttgcaaacac atgtccaatt caggaaaaaa aatttcacgt ttctcgtctg 120
gcttttttct tcttttttat ttgtttggga gattcccagc tagtttcaga cttaggtctgt 180
gaaggaggca cactattttg cttgggtattt gacttggatt tatctgtctc ttgtagtatt 240
ggcggcactt gggaagagct cttgtcagaa tcactttttg ataagattac agatggctcg 300
gtagaagtag cag 313

<210> 272
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 31
<223> n = A,T,C or G

<400> 272
aaaaaacatt tattttaata agactattgc naacacatta aaaaaactaa atagtaatat 60
tacaaaatct atatacttgc acatttagta tttgtcaatg tgccagaggt tttcttcatg 120
aaatttgact tctttgaagt gaaggctttt ttctatcatc tcttatagct ctgactgaat 180
aagtcttaat gctttcttca tgttttctat caataggggt aaatcccagag gctcatatgt 240
gtacaatctg ttagagtatc ttccagctat gtcagctcta actgttaaag aagggtctac 300
aaacatgatt ctaggcacat attgcccac aggtgataaa ttcttatcag tggtttcatg 360
cataaggttt agcatgatga acttattctg agccatttct tgtatttctt cattttgggc 420
aaatactttc tttagtgcct gagagtattg acaatcctcc ag 462

<210> 273
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30, 66, 67
<223> n = A,T,C or G

<400> 273
ctgatcaaag catgggatat tttaatagtn ttatacataa tattttttaca tagaaaactt 60
tacatnncat ttcataattat ataattctgc ttattctttc aaaaatttat acatccattg 120
ggcaagggaat ggttttcatt aaattaccaa tattaaatgc acttaatcat tgtgtatagg 180
ttaaaccaaa gtaactatta actaactttt aggcatttta aggaggtaaa acatacattt 240
tacacataag tatttgcagc aaatatgcag ataaaatttt tt 282

<210> 274

<211> 125
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 33, 63, 68
 <223> n = A,T,C or G

<400> 274
 cagccctaga cctcaactac ctaaccaacn ttnccttaaaa taaaatcccc actatgcaca 60
 ttnaatcnct ccaacatact cggattctac cctagcatca cacaccgcac aatccccctat 120
 ctagg 125

<210> 275
 <211> 528
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 33, 68, 470
 <223> n = A,T,C or G

<400> 275
 aaagctgtgg aaaagcttta ttatagattt ttntacagaa ttaaaaaagt tcaaacaata 60
 ataagccngg aaccacaaat aattaaaagg aaacacagca atcccataaa caagcattct 120
 ggcattctgtt agaaattttc cctcaaatta tgaaatgtag ctctccatgc tttccaatga 180
 ttgtttataat acccacaat atctgtgatt tcagtggaa actttaacaa aagttttctt 240
 ttttaaggcat gatcctgatt cattttttct tcaatatctc agtcatttca ggaactacct 300
 taaataaatc tgcaactatt ccataatctg ccacttggaa aattggagct tctgggtctt 360
 tattaattgc cacaattgtc ttgctgtctt tcatcccagc taaatgttgg atgggtccag 420
 atattccaac agcaatataa agttctggtg ctactatttt tcccgtctgn ccaacttgca 480
 tgtcattggg aacaaagcca gcatcaacag cagcacggga agcaccaa 528

<210> 276
 <211> 420
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30
 <223> n = A,T,C or G

<400> 276
 aaatgtcttg tttcccagat ttccaggaaan tttttttctt ttaagctatc cacagcttac 60
 agaaacctga taaaatatac ttttgtgaac aaaaattgag acatttacat tttctcccta 120
 tgtggtcgct ccagacttgg gaaactattc atgaatattt atattgtatg gtaatatagt 180
 tattgcacaa gttcaataaa aatctgctct ttgtatgaca gaatacattt gaaaacattg 240
 gttatattac caagactttg actagaatgt cgtatttgag gatataaacc cataggtaat 300
 aaaccacag gtactacaaa caaagtctga agtcagcctt gggttggctt cctagtgtca 360
 attaaacttc taaaagttaa atctgagatt ccttataaaa acttccagca aagcaacttt 420

<210> 277
 <211> 668
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31, 63, 566
 <223> n = A,T,C or G

<400> 277
 ccagggtggc tctgatatag cagccctggt ntatatttcga tatttcagga agactggcag 60
 atngcaccag accctgaatt cttctagctc ctccaatccc attttatccc atggaaccac 120
 taaaaacaag gtctgctctg ctccctgaagc cctatatgct ggagatggac aactcaatga 180
 aaatttaaag ggaaaaccct caggcctgag gtgtgtgcca ctccagagact tcacctaact 240
 agagacaggc aaactgcaaa ccatggtgag aaattgacga cttcacacta tggacagctt 300
 ttcccaagat gtcaaaacaa gactcctcat catgataagg ctcttaccoc cttttaattt 360
 gtccttgctt atgcctgcct ctttcgcttg gcaggatgat gctgtcatta gtatttcaca 420
 agaagtagct tcagagggta acttaacaga gtatcagatc tatcttgtca atcccaacgt 480
 ttacataaaa ataagagatc ctttagtgca cccagtgact gacattagca gcatctttaa 540
 cacagccgtg tgttcaaagt tacagnggtc cttttcagag ttggacttct agactcacct 600
 gttctcactc cctgttttaa ttcaaccag ccatgcaatg ccaaataata gaaattgctc 660
 cctaccag 668

<210> 278
 <211> 202
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 32, 63, 66
 <223> n = A,T,C or G

<400> 278
 aaattggtat cgacggcaac cagggggaagn tnctaaactc ctaatctatt ctggatccaa 60
 ttingcnaagt ggggtcccat caagggtcag tggcagtgga tctgggacag atttcactct 120
 cacgatcagc agtctgcaac ccgaagattt tgcaacttac tactgtcaac agagttacat 180
 gtccccgtac acttttgac cc 202

<210> 279
 <211> 694
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 63, 526, 577, 580, 586, 599, 608, 620, 624, 642, 643, 651,
 660, 668, 681, 687, 692, 693
 <223> n = A,T,C or G

<400> 279
 ctgtacttgg acaaaataag ttaattctat ttggttgctc attaaagttt tatgtggcta 60

```

tgnacccact ggagctaaaa attggctttt aactgtttcc aaatcagaac tagcagagga 120
gagaagtaaa taaagccaat ggcactccct tcagaggctc aaaatgggta gatattgatg 180
cagattttaac cttagcgagt ttcagtcagt ccatttagat gatcctgtag gttcatacaa 240
atacactgaa ccgttggttt aacttctctt ccttcctcaa agtttatgat aaagagactc 300
atccctgtat tgggagtgcac tgacataagt tcagatctgc tcagagtggc tggtaaggaa 360
cacttaaggt cagtcagaaa ataatacaaac agacttctca tgtaagcacc gtgactcaca 420
actaagacac tggctgctaa tcctggaata ccgctgtctg aattaacttt agagctgtga 480
ttttttccta aaggaaatat ctctgccaaa gaagtttcca gacagntgct tgggagatcc 540
ttggggaaaa ctgggtctttt tgatccggtt ctttcangan taggtngaca aaagaaatnc 600
aaaaaagnct atcccacgcn tttntcacct gggcccagcg gnnctcctcc nggggggggn 660
aaacacangg gactcttccc ngggctngct tnnng 694

```

```

<210> 280
<211> 441
<212> DNA
<213> Homo sapiens

```

```

<400> 280
aaaaaacttc catgcaactt ctggtttatt gtttggcaac tccacatgat aaaaaataa 60
aaacagccca accgagtttc ggaattaagt attcttctag taagtgattc aaacttgtaa 120
tatttgccac aggactgact tatttattta ctagctagaa gctcttaagt tcacttgttt 180
atcaggggcat atacagaagg gtttggttaa actcgatgtt aactttacaa ctttctgacc 240
tgggtgcatga attctcaagt actgtatttc actgtgttgg tgtgtctgat ggaaatttcg 300
aggtggtccc acaaaaatat tttatgtagt gtgccttcaa agagaacatc ttatttctct 360
tcacttatcg tcccacaaag tcacatttgg tgggtggtcag ccaagtcgca tctggtctag 420
ttttactctt gtcccaattt t 441

```

```

<210> 281
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 281
aaatttggtta ggtctgaaga atctaaaact gttaatttaa cccttaactt gtgcctagaa 60
actacagcac atataaaata tgtaaacacc agcctgttgc tgtacttttc tgcttatttt 120
acagcctcaa atatttctca ttatcttgtc acttagttct tcatgtttct ccttctgact 180
tttaataatg gtaataggaa aacaaaaccc aaagcttttc agaacttcag tgtgagggtt 240
cctattttga caagttaact tgtaataact cagggtttac gatgtataat ttacctataa 300
gaccaaacta actcatggag atattttgaa ctattattta ggtacaaact ttataaagaa 360
tgtagtatg tcataaaata taacattaca gcttattt 398

```

```

<210> 282
<211> 226
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 31, 65
<223> n = A,T,C or G

```

```

<400> 282
aaaacaatat tctctttttg aaaatagtat naacaggcca tgcatataat gtacagtgtg 60
ttacnccaat atgtaaagat tcttcaagggt aacaagggtt tgggttttga aataaacatc 120

```


tggatcttat agaccgttca tacaatgggt ttagcaagtt catagtaaga caaacaagtc 180
ctatcttttt ttttggctgg ggtgggggcg cccaggccga ggctgg 226

<210> 283
<211> 358
<212> DNA
<213> Homo sapiens

<400> 283
aaacaaaaat actcaagatc atttatatatt ttttggagag aaaactgtcc taatttagaa 60
tttccctcaa atctgagggg cttttaagaa atgctaacag atttttctgg aggaaattta 120
gacaaaacaa tgtcatttag tagaatattt cagtatttaa gtggaatttc agtatactgt 180
actatccttt ataagtcatt aaaataatgt ttcatcaaat ggttaaatgg accactgggt 240
tcttagagaa atgttttttag gcttaattca ttcaattgtc aagtacactt agtcttaata 300
cactcaggtt tgaacagatt attctgaata ttaaaattta atccattctt aatatttt 358

<210> 284
<211> 288
<212> DNA
<213> Homo sapiens

<400> 284
aaaacttttg ttaagaaaaa ctgccagttt gtgcttttga aatgtctgtt ttgacatcat 60
agtctagtaa aattttgaca gtgcatatgt actgttacta aaagctttat atgaaattat 120
taatgtgaag tttttcattt ataattcaag gaaggatttc ctgaaaacat ttcaagggat 180
ttatgtctac atatttgtgt gtgtgtgtgt gtatatatat gtaatatgca tacacagatg 240
catatgtgta tatataatga aatttatgtt gctgggtattt tgcatttt 288

<210> 285
<211> 629
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 31, 34, 35, 115, 435, 526, 585
<223> n = A,T,C or G

<400> 285
cctaaaagca gccaccaatt aacaaagcgt ncanntctcaa caccactac ctaaaaaatc 60
ccaaacatat aactgaactc ctcacacca attggacca tctatcacc tatanaagaa 120
ctaagttag tataagtaac atgaaaacat tctcctctgc ataagcctgc gtcagattaa 180
aacactgaac tgacaattaa cagcccaata tctacaatca accaacaagt cattattacc 240
ctcactgtca acccaacaca ggcatgctca taaggaaagg ttaaaaaaag taaaagggaac 300
tcggcaaato ttaccccgcc tgtttacca aaacatcacc tctagcatca ccagtattag 360
aggcaccgcc tgcccagtga cacatgttta acggccgagg taccctaacc gtgcaaagg 420
agcataatca cttgntcctt aattagggac ctgtatgaat ggcttcacga ggggttcagct 480
gtctcttact ttttaaccagt gaaattgacc tgcccgtgaa gaggcnggca tgacacagca 540
agacgagaag accctatgga gctttaattt attaattgcaa acagnaccta acaaacccca 600
caggtcctaa acttacccaa accctggca 629

<210> 286
<211> 485
<212> DNA

<213> Homo sapiens

<400> 286

```

aaatgtactt gctcagctca actgcatttc agttgtatta tagtccagtt cttatcaaca 60
ttaaacccta tagcaatcat ttcaaatcta ttctgcaa atgtataagaa taaagttaga 120
attaacaatt ttattttgta caacagtggga attttctgtc atggataatg tgcttgagtc 180
cctataatct atagacatgt gatagcaaaa gaaacaaaca aaagccagga aaacactcat 240
tttcgccttg aatatgtaaa tgggattaat ttgtctctgt gccttatgtg gaaaggaact 300
tctttggttt tccttttttg ttctggtgga agcatgtgca ggagacatat catccaaaca 360
taaaccatta aaatgtttgt ggtttgcttg gctgtaattt tcaaagtagt taattgagga 420
caaagggtaa tgcagaagtg atagctttgg ttgtctgagt cttgttttaa gtggccttga 480
tattt 485

```

<210> 287

<211> 340

<212> DNA

<213> Homo sapiens

<400> 287

```

cctggagtcc aataaccacc ccctcatacc acaccctgtg catacaccag ccaagccttt 60
cctggtctgg gaagggaaga gaaaaaagac gcaggccacc tgggggttct gcagtctttg 120
gtcagtccag ctttctatct tagctgcctt tggcttccgc agtgtaaacc ttgcctgccc 180
ggaggcagga ggcccagctg gacctccgag ggccatgagc aggcagcagc catcttgccc 240
tcaagcttgc ctttcccttg agtccctctc tccctcggc tctagccaga ggtgtagcct 300
gcagatctag gaagagaaga gctggggagg aggatgaagg 340

```

<210> 288

<211> 290

<212> DNA

<213> Homo sapiens

<400> 288

```

aaacagtctc tctcgggtgt tctccttgtc aaactgttca tcccagtttc ctctgaaata 60
gacagatttc accagaacca gccttgtcaa tggatccact gagcccgag agagcaactc 120
cgcaatttta ctttctgtct ttccagctac ccagggtgtt atgtgttttc tggacttctc 180
tacggcgctg ataaagtcaa gctcctccat ctctgcttgg tagaattttt ggcaggaatc 240
tctaaaagat gagaggaaat cacaagactt ttccccaag agcctgttgg 290

```

<210> 289

<211> 404

<212> DNA

<213> Homo sapiens

<400> 289

```

ccacccacgc ttaggttccc atcacactga tgactccggg tttggcgagc acaggagcgc 60
aaaccttttc acattctttc tgtgatccaa atttgttttc gtttccacca caacctccat 120
accagaatct tgcacagctt ttggtgtttg gatcatagta ccattttaat atgaaatccc 180
tgcaagttcc ttcgtctttc ggcaacttgc atatatctgt ttcagtgaga gccaatggtt 240
ctgtgctcac cattagattg atggttgaac tagaagctga ccttgctggc tgtggaggtg 300
ggggctgaga tttctttgta ctgaaacttc cgtggtaggt ggctctgacc tgagacctca 360
ggtagcagac cacagccaca tggatatgtc gccacgcgag cagg 404

```

<210> 290

<211> 384

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 305
<223> n = A,T,C or G

<400> 290
ccaggcgctc cttgtcggca tcagggaggg tggccttgaa ctgctcatgg gctgtgggtca 60
gtccctggat ctctcaatg gtgtgcacaa tgaagggtgc ctgcagggtcc tccatggccc 120
cctccatcca gttgttgaag ggtgcagccc gcttggcata ctccaagtac agctgggtcaa 180
tgggtctccag cagtttctcg gtccgctcca gagcttccct tcgcttctga gttagggccc 240
ccagattgtc ccaactggtca cagatctttt ggcaacgggc gttgacactg ggtgagtcac 300
aatantccag ctcatgtgagc tcctgtgcca tggcggaat ctgctccaca cggtcctggt 360
gggcagccag gccactctcg aagg 384

<210> 291
<211> 278
<212> DNA
<213> Homo sapiens

<400> 291
aaagtttatt ttactatatt ctttatcact ttattgtatc atcaccattg gtttcataat 60
gtaaatacta tatgttgaac aaattaaatg tcaaaatttt ttattaccat agtccatggt 120
aatagtgggg ctttcagggtg tttagagatt ttttttggtg ttgttaacat tcattgcaaa 180
agtactagat ggtgtataac tctagagttg aattttaagg gattccctaa tatgtatact 240
atctttttat ctgaagtaat aaataaaca tgcatttg 278

<210> 292
<211> 177
<212> DNA
<213> Homo sapiens

<400> 292
ccttggcccg gtcattcttg tccagtttga taggttcagg aaattcggtg tacagctcca 60
cctccgtttc ctgcttaagt gcattccgtg caatcgctcg gaacgcctgc tccacgttga 120
tggcctcctt ggcactgggc tcaaagtagg gaatgttggt tttgctgtag caccagg 177

<210> 293
<211> 403
<212> DNA
<213> Homo sapiens

<400> 293
aaaaagaagg acttaggggtg tcgttttcac atatgacaat gttgcattta tgatgcagtt 60
tcaagtacca aaacgttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg 120
cagtactggt ggtaaattga caatttatgt ggattttgca tgtaatacac agtgagacac 180
agtaatttta tctaaattac agtgcagttt agttaatcta ttaatactga ctcatgtct 240
gcctttaaat ataaatgata tgttgaaaac ttaaggaagc aaatgctaca tatatgcaat 300
ataaaatagt aatgtgatgc tgatgctgtt aaccaaaggc cagaataaat aagcaaaatg 360
ccaaaagggg tcttaattga aatgaaaatt taattttgtt ttt 403

<210> 294

<211> 305
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 231, 236, 237, 242, 253, 265, 273, 299
 <223> n = A,T,C or G

<400> 294
 aaagcaatct ggcattggtgt cctgtagtga agcagaggat cataacataa gtaaactctc 60
 tatgggtgga agttggagag aaggacattt tggctttgta catgaaaaga ctctccagat 120
 agaaacagat tctgcccata agtgaaataa aatgctttgt gggggtaatg agtgacttat 180
 agtattcagg cagatgttac ataactgcta attaaagtttc cctggattga ntttanncaa 240
 anaattgaaa gtngattttg gtcangtgtc agnaaactac tgcctataaa cccatatcnt 300
 accca 305

<210> 295
 <211> 397
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 304, 315, 356
 <223> n = A,T,C or G

<400> 295
 cctatctggt tggccttttt gaagacacca acctgtgtgc tatccatgcc aaacgtgtaa 60
 caattatgcc aaaagacatc cagctagcac gccgcatacg tggagaacgt gcttaagaat 120
 ccactatgat gggaaacatt tcattcccaa aaaaaaaaaa aaaaaaaaaa ttctcttctt 180
 cctgttattg gtagttctga acgttagata ttttttttcc atgggggtcaa aaggtagcta 240
 agtatatgat tgccgagtggt aaaaataggg gacagaaatc aggtattggc agtttttcca 300
 tttncatttg tggnggaatt tttaatataa atgcggagac gttaaagcatt aatgcnagtt 360
 aaaatgtttc agtgaacaag tttcagcggg tcaactt 397

<210> 296
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 296
 ccatacctcga tgttgaagtt gtcgtggggc ccgaagacgt tgggtggggat gacagcgggtg 60
 aaggtgcagc cgtactgctg gaagtaggcc ctgttctgca cgtcgatcat cctcttggca 120
 tacgagtacc caaaattgct gttgtgggga ggcccattgt ggatcatggt ctcatctatc 180
 gggtaggtcg tcttgtcagg gaagatacag gtggacaggc aggacaccac cttgcggggcg 240
 cccacctcga aggcgagtg caggacgttg tcgttcatgt gcacgttttt cctccagaag 300
 tccaaattgt atttgatatt ccggaacagg cccccacca ttgcagcaag atggatgacg 360
 tgtgtgagtt ggaccttctc aaacagggcg cgggtctgtg ctgtatccgt gagatcggcg 420
 tcttttagagg agacaaacac ccagtcc 447

<210> 297
 <211> 681
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 426, 432, 634, 668

<223> n = A,T,C or G

<400> 297

```

aaataacagc atgtaaaata ttaaaataca agctttcaaa aataaataca taaataagta 60
gaaccctcgt aagaaatagt caaacacatt aagtcctttc cagctgtccc tagaaagctg 120
ctgttctctt ttccattttc agctctggta agggcagggg ccaccctgca ggaagtgtca 180
atgatacgct gataagcttc ttacttctct cctgtcagtt ggtgctcccc ctgtgatgag 240
aaaagggtta ctgttgacag tgctaaggaa ggctgctctt ctgtcactct gaagttgctt 300
ggagggatgt ccccatgcag actctctccc agccctccac tcagggaagg tctgtctgta 360
cccactgcct tctatagcag aaaacttgca ctccatgaatg cttttttttt ttttcaagaa 420
agaagnggct gnggactcaa ctagattctt ggtttgaaaa agccaaaaca tattgggtcac 480
tgattgtcac attgggttag aaatgtccat tcatgatctc ccttaagctg cacacaaccc 540
tatgaaataa ctaccattat ctaccctatt ttgctaaagc tcaaagagat taaataatgt 600
tgacagggat cttagccttg aactcactga agnggttact gcaaagttct gctcttcacc 660
aagaaggntt acaggccaaa g                                     681

```

<210> 298

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 68, 72, 169, 182, 262, 263, 264, 269, 275, 335, 343

<223> n = A,T,C or G

<400> 298

```

cctggcttaa gaccagacat ttgaagaagg ctccaggcag ggaaaggaaa ggagaggcca 60
gccccacnct gnccctctcc tgcccccacg tctccagcaa cacaaggcgg ccagtggacc 120
gtgaaccatt tatttccaaa ctataaagaa acctgctctc tgagaaaana cactgcccag 180
gngatgaagc tccagccctt ggaggtccaa aaccagtc aaactcagtc cctttagaaa 240
gctgctgtgc cttggaatg annntcggnt gtcanagcct gggaagtggg gggaagaacc 300
agcccactcc cctctcctgc tgcgattcca gcgcncgttg ggnccagatc tgg 353

```

<210> 299

<211> 560

<212> DNA

<213> Homo sapiens

<400> 299

```

aaagttcaag gactaacctt atttattttg gaaaggggag gaggaaggaa atgatatggg 60
accagacac tgggctaggg tgcaacttta tctcatTTaa tactcccagc tgtcatgtga 120
gaaagaaagc aggctaggca tgtgaaatca ctttcatgga ttattaatgg atttaagagg 180
gcatcaatca gctcaactca agatttcata atcattttta gtatttagat tgtgcctcaa 240
agttgttagt cctcacaata cctccactgg tttcctgttg taaaaacctt cagtgaagttt 300
gaccattgtg ctcttggtct ttgggctgga gtaccgtggg gagggagtaa acactagaag 360
tcttttagtac aaaactgctc tagggacacc tgggtgattcc tacacaagtg atgtttatat 420
ttctcataaa gagtcttccc tatcccaagg tcttcatgat gccagtagcc atatatgata 480
aattatgttc agtgataact tagttatcag aaatcagctc agtggtcttc cccgcatga 540

```

ttcacatttg atgagttttt

560

<210> 300

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 120

<223> n = A,T,C or G

<400> 300

aaaaactaca taggggtgtg tgtgtgtgtg tatgtttatt ttatacacac atatttgtat 60
attctaatat attactaagg caattttaat gaattacat gtatataaaa aaatatctgn 120
cacttggcac acaggtttgt atgtatgtgt atatatatat gtatg 165

<210> 301

<211> 438

<212> DNA

<213> Homo sapiens

<400> 301

aaaatatatg tatttaaaaa caaaaagcaa cagtaatcta tgtgtttctg taacaaattg 60
ggatctgtct tggcattaaa ccacatcatg gaccaaattg gccatactaa tgatgagcat 120
ttagcacaat ttgagactga aatttagtac actatgttct aggtcagtct aacagtttgc 180
ctgctgtatt tatagtaacc attttccttt ggactgttca agcaaaaaag gtaactaact 240
gcttcatctc cttttgcgct tttttggaaa ttttagttat agtgtttaac tggcatggat 300
taatagagtt ggagttttat ttttaagaaa aattcacaag ctaacttcca ctaatccatt 360
atcctttatt ttattgaaat gtataattaa cttaactgaa gaaaagggtc ttcttgggag 420
tatgttgtca taacattt 438

<210> 302

<211> 172

<212> DNA

<213> Homo sapiens

<400> 302

ccaaaacagg agtcctgggt gatatcatca tgagaccag ctgtgctcct ggatggtttt 60
accacaagtc caattgctat ggttacttca ggaagctgag gaactggtct gatgccgagc 120
tcgagtgtca gtcttacgga aacggagccc acctggcatc tatcctgagt tt 172

<210> 303

<211> 552

<212> DNA

<213> Homo sapiens

<400> 303

ccagcctgtt gcaggctgct tcgtagecgg cgtcggctgc ggacttcct tcccgggtct 60
ggatcttttc atcctaccag atgagaaagg gaatgagtga atggagtga cccgcacct 120
gtcactttcc tgagacatga ctgccaggaa gaagagctgc tctggtctcc atcagggctg 180
gcaggacaaa ctgaccagt agtcagtagg cagagttcac actgaaaaag ggcacaaggg 240
ctgtcccaca atgggaggaa atggggtctc agaacttcta cttctctgaa aactaagaca 300
caattgggac aaccaccacc cccgtgtgag atttctcacc tcgagacagg acaagatgaa 360

gttcacggct tcttctgggg taaagacctt gaagagccca tcacaggcca acaaaatgaa 420
 cctacaacac cagggagaaa tataaacggg ttttagggcc aaccacaaaa taaaaataa 480
 aaaaagggcc tggagatgga gataaaataa atatttgtcc aactattcaa aggctaaggt 540
 ttttttttct tt 552

<210> 304
 <211> 601
 <212> DNA
 <213> Homo sapiens

<400> 304
 cctttgattc ttggtagtac attgcatgta aaatgtttat aagaagctac ttttccttca 60
 tgggaagaaa ttcccacatg agattcataa attccttagac tccgtggctt ctttgggtccg 120
 gaatgcttaa actcatatga gtgttctgga tcccagtgta tccaatcata attcacatta 180
 tcaccttcac gaaccacata ctttgcccac ggtgaaatac gatacaagat ctctccgctt 240
 ttactagtaa taactacctt taatttggat ccatgaggca cgagtacaga tttattctgc 300
 tttgggtggga tatacagctc ccattttcca taatccagtt ttttgtatgg gtacgaaaat 360
 ggattccaac cattaataatc tccagtaaga aaaactcctt ctgctcccgg ggcccattct 420
 ttgcagtata aaccaccatc agcacatctg tggacgcca atgattcata gcctctggaa 480
 aacttatcaa taccaccttc attttctcca atgttcttca aaatttggct aaactgctta 540
 tacctgcgct ggaagtccac ggcgtagggc ttcaagtacc ggtcgatctc caggagtctg 600
 g 601

<210> 305
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 305
 aaataacagc atgtaaaata ttaaaatata agctttcaaa aataaataca taaataagta 60
 gaaccctcgt aagaaatagt caaacacatt aagtcctttc cagctgtccc tagaaagctg 120
 ctgttctctt tttcattttc agctctggta agggcaggga ccaccctgca ggaagtgtca 180
 atgatacgct gataagcttc ttacttctct cctgtcagtt ggtgctcccc ctgtgatgag 240
 aaaaggggta ctgttgacag tgctaaggaa ggctgctctt ctgtcactct gaagttgctt 300
 ggagggatgt ccccatgcag actctctccc agccctccac tcaggggaagg tctgtctgta 360
 cccactgcct tctatagcag aaaacttgca ctctgaaatg c 401

<210> 306
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 306
 aaactgacta tggattcctt gaaggtctgg cagttgttga tgatggcgat catgtactga 60
 acgtagcagt gagggtgctg ccgattcctc aggtgctctt ctttatacag ctgcgcttca 120
 tctttatata tgaggacaga caggcttcgg tcagacagca ctaagggcaa catggagctg 180
 tttcaaattg cacgctgacg tcacgcctgg cctgaaattt cacatcacta acatctgacc 240
 ggatgagcct ctaaaaaata aacaatcttt agacgatcca gactaatgga aggacagaga 300
 ggttgattac ttt 313

<210> 307
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 219, 232, 313, 321, 327, 342
 <223> n = A,T,C or G

<400> 307
 aaagatgctg ntaatgaaca ttacggacaa ttcattggtgt ggctagttgg taacacttca 60
 gctgattttt cttatgagat ggaaaaaaaa aatcagccaa gtaagggcac atcttcactt 120
 catTTataag tcagcatcca aggtaaaaga attctctgtt ggacttgaca tcactcccat 180
 cctctgatac tcgcctactc tcttctcaaa gaagttagnt ctttccttcc antgaaatat 240
 tctcataaaa gtcaaatggg ttctctactc tgaaaacctt gctaaaaccc aattccagca 300
 taagtttgtc tgnccaaaac ncaatgnatt gcttcattaa antgcaattc atcccaatga 360
 gcttcc 366

<210> 308
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 486, 529
 <223> n = A,T,C or G

<400> 308
 ccagctatca gctgatcgct ttctgtcttg acgctcgctc tgcttctgac atcaaaatct 60
 tctgtctcaa agtcagagtc atccaaactc tcaggggtcc ttatcatcag cactgctttc 120
 ctgatgtccc ggatgccatc atataccagg cggaagcat cgataaactc attctcatcc 180
 atgggctggg caggggtccga gctgagggct tccacggctg cttctacttg ctgagtaaaa 240
 cgtggcatga ctgtgttggg gagcagctta gtggcttcca gaaccttctc tgtgtagact 300
 cctggctcat agtcgtccat ctctgaggtg actacgtgaa tgaccggggc tgcccggcct 360
 cgaattgcac cagctgtgcg gccaggccat ccacatcctt ctcttgagga gcaatgacac 420
 atttggtcac atcttccaaa atgtgattct ctgagacagc caagaagtca tcaatggaag 480
 taatgncatc gacagcatct gtgagaacac cgacttggtt ttccattgnt cttt 534

<210> 309
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 309
 catactcctt aactatttcc tcatcaccca actaaaaata ttaaacacaa actaccacct 60
 acctccctca ccaaagccca taaaaataaa aaattataac aaaccctgag aacccaaatg 120
 aacgaaaatc tgttcgcttc attcattgcc cccacaatcc tagg 164

<210> 310
 <211> 131
 <212> DNA
 <213> Homo sapiens

<400> 310
 aaaaatcatt tatcttttcg tgcttcaaca tgatgcaaaa caaaaatcta ctgaataaaa 60
 atagcaagga agggaaatcaa acatttataa gatataatga ttatttttct gaccaaagtg 120

caatgatttt t

131

<210> 311

<211> 626

<212> DNA

<213> Homo sapiens

<400> 311

```

cctatgtgcg ccagtttcag gtcacgcaca accagaacct cctcttcgag ctctcctaca 60
agctggaggc aaacagtcag tgagagtggg ggctccagtc agacccgcca gatccttggg 120
cacctggcac tcaagcactt tgcacgatgt ctcaaccaac atctgacatc tttcccgtgg 180
agcaacttcc tgctccacgg gaaagagggtc gatggattta cccctggacc cataagtctg 240
ttcatcctgc tgaagtcccc tccccattgc tccttcaagc caaaactaca ctttgctggt 300
tcctgtcccc tctgagaaa gggatagaaa gtccttccct ctatgtcctc ccatcgagat 360
ctgttctggg gatggagctt ccaacttcct cttgcagcag gaaagaatgc tgctcaccct 420
tctgtcttgc agagtgggat tgtgggaggg attggcagcc ttcttctcca ccacctgtcc 480
agcttccctc tggtcagggc tgggaccccc aggaatatta tgttgccgtg tgtgtgtgtg 540
tgtgtgtgtg tcttctttta gggagcagga gtgcacatctg taattgaggg tagatgttgt 600
gtgtgctggg gaggggtcct tctgtt 626

```

<210> 312

<211> 616

<212> DNA

<213> Homo sapiens

<400> 312

```

aaaccaaaga aattaagaaa aaagacttca ttgcttgaat gacgcgaaca gctgtctgag 60
tcacctagac tttaacacca cctggggccc tgggaatgac gctgacgaga gatctgcaca 120
tagtaggcgt gggctccaaa tgtgctcatc agctgacttc acatcctcac aagtcagcct 180
cagatatgac ccaagggata cgtaccatct cttcttgaaa cagcgtgtca aattatata 240
atgtatgcaa aaaagagtaa tgtactaagc aaaccaagtt tcgtcttttt cttctgaatc 300
tggttttaat gtgacctgtc atccccatct ttogaattta tgagctccat cttctctaga 360
ctgttaactt cttgaggaaa acatgctatt ttaccacctt tcaactgctga atccctagcc 420
cttaagcaca gtctctggca cagaataaat acgaaatgaa tgagtgaatg aatggatgga 480
tgggtgaaga gaaaaggcaa tgcacaagat ttacctatca aaatccacca atggctccta 540
aaaatggttt tgtcagtaga gatgctgaat atattcatat aatacattta tttcaatact 600
attaagaatt ctagtg 616

```

<210> 313

<211> 553

<212> DNA

<213> Homo sapiens

<400> 313

```

aaaaaatggc agcattgtac ttgaatcaga aagcttactg ggatttccctc atcgaaagta 60
gagattgcag ctaatcctag taccttttgt tagtaattac ttaaggcaca gtgcaaagtt 120
gaaggactgt tttggtacaa actcaagcca gctacatgta tgccttgctt ggtatccttg 180
ctagagcaca tgcgggtata ataccgtatt atacacaaca aggccaccct gttgtatctg 240
tggtacaatt aaacatcagt cccagaaagt gaaccctagt catttattat aggtgcccac 300
ctctgacttg gaacaaaatg ccaactccatt catgttcatt tttgtcctgg agaggattta 360
tttcctaata gattctgaaa gccaaacaaat caatgtagtt cttcatagag aacttaagag 420
taaggctcaa aatggcctca aaatgggctt cttggatgac ttccaacagt gactggcctt 480
ctcaacactg cagatgtctg agcactacca taacctaacg aagtgaggaa ggaggaggca 540
aattggtatt ttt 553

```

<210> 314
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 314
 ccagcgactc cagcgggtggc agcaggcagt gcacgtactc tgggcctccc accagggtag 60
 tgaagggtcc cagctgttct gccagggccca ggaggacctc atcttcatca tagatggtat 120
 ctgtaaggaa aggcagaagc tcacttcggg tcctttcaac cccaagggcc aaggcgatgg 180
 tggacagctt cttgatgctg ttgaggcgaa gctgaacgtc ctcatcgcg agttcgtcta 240
 tgagcaccgc gatggggtag agcgagtcgt cgccgctggc cgccgccatc ttggctccgt 300
 ccctttcctg tcagactgcg gccagcgctg 330

<210> 315
 <211> 380
 <212> DNA
 <213> Homo sapiens

<400> 315
 aaaaatgaca ttgcgttttag cttattgtaa gaggttgaac ttttgtatit tgtaactatc 60
 ttttaagccct tcagtttata attcatataa aatgcctttt gtatttataa taatcctatt 120
 ttaatcagtg catgaaattt gcttttttaa agttcatttg aatgattatt ccttccctct 180
 aaagaaatga ttttggtaat gttgagaggt accttaccac aaatcctaac tgtaagtgt 240
 ttcatggtta ttttcaaaag aattatgact cttcccaaaa agaatcctaa aaaacttgta 300
 ataaacctat aaagctgatt tgcataatita caaaatittg aatagcaaat ataggcaact 360
 catatatgta tataattttt 380

<210> 316
 <211> 222
 <212> DNA
 <213> Homo sapiens

<400> 316
 aaactacaga gggttttcca gctattatit cctttagttt ctaaaagtaa cgacttatat 60
 taatgtttta taaaagatat tgatgaaaaa aaggtaatgc tgaaataaag gcgcttttag 120
 aatatittta ggacaacata aggtattaat attggaaaaa aactgtacat attttcaagc 180
 acaacactga aatattgcag cagtgtttta ctgaattgtt tt 222

<210> 317
 <211> 490
 <212> DNA
 <213> Homo sapiens

<400> 317
 ccttgaatga gcgtggagag cgattaggcc gagcagagga gaagacagaa gacctgaaga 60
 acagcgccca gcagtttgca gaaactgcgc acaagcttgc catgaagcac aaatggtgag 120
 aaactgccta tcctggtgac tcttcttaag agaaactgaa gagtttggtc agcagttttt 180
 acaagaattc gggacctcgc cttgcttctt tttttccaat atttggaacac ttagagtgg 240
 ttttgttttt tcttttcaga tgttaatgtg aaagaaaggg tgttgcattt ttacatttcc 300
 ctaatgatct tgctaataaa tgctacaata gcacgggctt cattttgggt tttgcctcc 360
 tcccactgtg tgtatgtgtg tatatgtatg ttttgaatat gttttcttta ttaaaaaata 420
 tttttttagt tttgaatatg aaatttggac caaatgataa actgcgctga gtctaaactg 480
 gcaacatgta 490

<210> 318
 <211> 340
 <212> DNA
 <213> Homo sapiens

<400> 318
 cctggagtcc aataaccacc cccatcatacc acaccctgtg catacaccag ccaagccttt 60
 cctgggtctg gaagggaaga gaaaaaagac gcaggccacc tgggggttct gcagtctttg 120
 gtcagtccag ctttctatct tagctgcctt tggcttccgc agtgtaaacc ttgcctgccc 180
 ggaggcagga ggcccagctg gacctccgag ggccatgagc aggcagcagc catcttggcc 240
 tcaagcttgc ctttcccttg agtccctctc tcccctcggc tctagccaga ggtgtagcct 300
 gcagatctag gaagagaaga gctggggagg aggatgaagg 340

<210> 319
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 319
 aaagatgctg ttaatgaaca ttacggacaa ttcattggtg ggctagttag taacacttca 60
 gctgattttt cttatgagat ggaaaaaaa atcagccaag taagggcaca tcttcagttc 120
 atttagaagt cagcatccaa ggtaaaagaa ttctctgttg gacttgacat cactcccatc 180
 ctctgatact cgctactctt cttctcaaag aagttagtct ttccttccag tgaaatatcc 240
 tccataaagt caaatgggtt ctctactctg aaaaccttgc taaaaccagc ttccagcata 300
 agtctgtctg ccacaaactc aatgtattgc ttcattagag tgcaattcat gccaatgagc 360
 ttcacaggca agg 373

<210> 320
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 320
 aaaaacaaaa ttaaattttc atttcaatta agaccctttt tggcattttg cttacttatt 60
 ctgccctttg gttacagca tcagcatcac attactattt tatattgcat atatgtagca 120
 tttgcttcct taagttttca acatatcatt tatatttaaa ggcagacact gagtcagtat 180
 taatagatta actaaactgc actgtaattt agataaaaatt actgtgtctc actgtgtatt 240
 acatgcaaaa tccacataaa ttgtcattta accaacagta ctgcacgagc gaacatctcg 300
 atatatgaaa actgcatcat caattcaacg ttttggtact tgaaactgca tcataaatgc 360
 aacattgtca tatgtgaaaa cgacacccta agtccttctt tttaaaaatg acattgcgtt 420
 tagcttattg taagagggtt aacttttgta ttttgtaact atctttaagc tcttcagttt 480
 ataattcata taaaatgcct tttgtattt 509

<210> 321
 <211> 617
 <212> DNA
 <213> Homo sapiens

<400> 321
 ccaaggcccc ttttgcagcc cacggctatg gtgccttctt gactctcagt atcctcgacc 60
 gatactacac accgactatc tcacgtgaga gggcagtgga actccttagg aaatgtctgg 120
 aggagctcca gaaacgcttc atcctgaatc tgccaacctt cagtgttcga atcattgaca 180
 aaaatggcat ccatgacctg gataacattt ccttccccaa acagggtctc taacatcatg 240

```

tcctccctcc cacttgccag ggaacttttt ttgatgggc tcctttattt ttttctactc 300
ttttcaggcg cactcttgat aaatgggttaa ttcagaataa aggtgactat ggatataatt 360
gagccctctg gtccagggtc cagtttacct aatattacct cagaaaggat atggaggggaa 420
gatgatcttt ttgccagggtc tgacttttct tcctgctccg ccctccatta acgctcagta 480
cccttttagca gctgacggcc ccacgttcta ctccatgctt ggcttccttt ccaactagct 540
ctttcatata ttttacttgc tagtatctcc attctctcta aagtagtggt tctttttgcc 600
cttaaactta aattttt 617

```

```

<210> 322
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 322
aaaaagaagg acttaggggtg tcgtttttcac atatgacaat gttgcattta tgatgcagtt 60
tcaagtacca aaacgttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg 120
cagtactggt gggttaaata caatttatgt ggattttgca tgaatacac agtgagacac 180
agtaatttta tctaaattac agtgcagttt agttaatcta ttaatactga ctcagtgtct 240
gccttttaaat ataaatgata tgttgaaaac ttaaggaagc aaatgctaca tatatgcaat 300
ataaaatagt aatgtgatgc tgatgctggt aaccaaaggg cagaataaat aagcaaaatg 360
ccaaaagggg tcttaattga aatgaaaatt taattttggt ttt 403

```

```

<210> 323
<211> 298
<212> DNA
<213> Homo sapiens

```

```

<400> 323
ccagaattag ggaatcagaa tcaaaccagt gtaaggcagt gctggctgcc attgccctgg 60
cacattgaaa ttggtggctt cattctagat gtagcttggt cagatgtagc aggaaaatag 120
gaaaacctac catctcagtg agcaccagct gcctcccaaa ggaggggcag ccgtgcttat 180
atttttatgg ttacaatggc acaaaattat tatcaacctt actaaaacat tccttttctc 240
ttttttcctg aattatcatg gagttttcta attctctctt ttggaatgta gatttttt 298

```

```

<210> 324
<211> 78
<212> DNA
<213> Homo sapiens

```

```

<400> 324
ccatgggaag gtttaccagt agaatccttg ctaggttgat gtgggccata cattccttta 60
ataaaccatt gtgtacat 78

```

```

<210> 325
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<400> 325
ccatcatggt caggaactcc gggaagtcaa tgggtccggt cccatctgca tccacctcat 60
tgatcatatc ctgcagctct gcttcagtggt ggttctgtcc cagggatctc atcactgtcc 120
ccaactcctt ggtggtgata gtgccatctc catccttggt aaagagggag aagg 174

```

```

<210> 326

```

<211> 679
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 83, 606
 <223> n = A,T,C or G

<400> 326
 aaaactgaaa tacctcttaa aataatttga tccccagcgt ttgctctttt tgaagtaacc 60
 aacttactct taaaaaggat ggntgccaaag atggaaagtc ttactgggtt ttcatgttaa 120
 cctattcttt ggacataact atgaattttg tatacaatgc acttcatgaa aagttgtggc 180
 tccccagat tgcccacaag tgtgatcttg aagtcctaaa catttgtcca tgtaagcttc 240
 aaaacagcgt taactgagtt attcaagtag cagtacttaa agatacaatt cttgaagcag 300
 tttcaatggg ttctgatcca aataatcagt ttctgaacat tactacttca cataatagag 360
 tccatcttca gtttcttctc actttctctt tcccttttgg gtttctttt tgtggcctga 420
 ggccaccagt tctttgggta ctatcaagat acttccatca tgggtacact ggagagcata 480
 gtggttggga ttgactggcc taccttggtc atctcttaat ctactaaaaa tatcatgata 540
 aaggtcatgc agtttctggt tcattatggt aatagctttg gtacattgtg cttgctctct 600
 cttaanagtt tccttctttg cttgcaagtt acatacatca tcttctaaat tcaaaattat 660
 gtccattttg gcgtttacc 679

<210> 327
 <211> 619
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 137, 490, 493
 <223> n = A,T,C or G

<400> 327
 aaaataagtt actggtaaat ggagttgcat tctatagtca ctttaataat attaacaaaa 60
 tatttataac tggaaacctta atgaaatgta tcatcaaadc aggtaaaagc aacttgtccg 120
 cagttaccaa agcctanata cgcgttagat gcgccttttc cggcctgtgc gtctgctctg 180
 gttcctctca ggcagcaaag ctggggaagg aagctcaggc aggagcctcc ccgacgccac 240
 aacggcacia gcagcagcta aagcaccgca ctttgctcta ctaacctttt acttaaatga 300
 ggttttgcca aatccacatc tggaaaccgc tcacacccat ttgcaaggat gtttgttctt 360
 tgatgaaact gcattctctac tgcacatgag ggctttcatt gtaggacaag aggagagttc 420
 gtttattttt gtaactgttt tacatgttcc gattagttaa tcggtagctt atgtcatttg 480
 ctatgcctgn agncttctaa tctctcctta ctaaaacatt acttcaaatt tgaattgacc 540
 cttggttata atttatttag ccgggatttg tgtgtcattg tagagcaact ctaattcaag 600
 aatagtgaca acttttaag 619

<210> 328
 <211> 132
 <212> DNA
 <213> Homo sapiens

<400> 328
 aaatccaaat acaaaagcat agtctctgca agattttggt ctttgaattt cttgatattg 60
 taattgatta ttgataactg tcatcatgaa attatctctc aataataaga taaataaact 120

132

<213> Homo sapiens

<223> n = A, T, C or G

ccttgaggta	actattgcaa	aatatacagt	gtaagttcag	tctgatggaa	accccgagatt	60
catcaaggat	acaaatctac	agtagcccaa	tggcggtttc	atagtgtata	at ttattatc	120
aataaaatta	actccgttac	aatcagcatt	catttcctcc	aattaaaatt	aagcataaac	180
cctaggtagt	aaccttctgc	acatatgtat	agctccgaat	ttcctcactg	ttcgtctggg	240
gcaaaaacaa	tattcaagct	tgtctgatta	tgcataTTTT	ctttaatcat	atagattata	300
tatacaatag	acaagacagg	actatataga	taatggacag	acttaaattgc	ccgcattttt	360
aagggtggaga	aaatgatgaa	tctatgcatc	cccgagaaca	cttaaaattt	ttttttattt	420
cactgggaaa	ttcttacagc	tactttacaa	tcataggtta	acagcctagt	tatacagaag	480
acatatcca	ctacagagct	atactctatg	caactgtttt	ttccctcat	aaacaacctg	540
agttcaaatt	gaattctatc	ttccacaatc	acaatgggtg	catcaccag	tacacagaag	600
tttgaatcac	aaaacataat	taccacaata	aaacacagtg	ttcaagtatc	ttggcagagc	660
aattgcgcgc	acaaactgca	aattaaatta	actcacacaga	ctaaaaacta	tacagcctac	720
catcacagtt	gtgcattata	aaaaagggag	tttctttcct	ttggttttaa	gtcaggaaca	780
gggtaggatt	ttttaccctc	nggccgggga	ccacgctaaa	ggggcgaaat	ttcttgccan	840
natattccnt	tcac					854

<213> Homo sapiens

ccaatgaata	actgacttta	taatcctggg	caatcagctt	ttggcggggt	gtaagtgcct	60
ctcgacactt	ttcactcatg	gattcttcaa	atttatggtt	aaagaggcac	ttatacactc	120
tgcctcacc	agcttgtgta	ttttcacaaa	aacgctcccc	atcatctcgg	caagcaaaa	180
ataaatgccg	gtctaagtga	aagtcacccg	atgcagctc	agccaccggg	agaattggct	240
tcttgcagag	ttcagaaact	tgaactctgg	gttctctttc	ttctgcttct	ttcaccagg	299

<213> Homo sapiens

aaagatatga	acagcttaat	tttccgtgtg	attatcta	taaaaaagaa	aaacaaaaca	60
agcaaaatgt	tcaagttaaa	aaaaaaacat	accgggtgag	caatgcacta	aaattatcca	120
catgaaaaca	aatggtctgt	aatcttataa	accaacatag	catttcactg	tcaacaatgt	180
gaaaatttaa	tatcttctca	aacaggcata	agatgaagaa	gtgctatttt	ttaattgtaa	240
aaggaaactta	tgtaatgtaa	aattacatta	taatttttca	ttccgaattg	acaaatgatt	300
tcaaaaacaa	ggatcaaagt	ttgactgcaa	atagtaatgc	aatataattt	cataaaaaatc	360
cttcaatttc	tatttttttc	cttttctgta	gttgacatat	gaagaccact	tcaattttcta	420

```

aaaaagggaa ccattccaat tttccctccc caagaaaatg tctcacaatt acaaagtaga 480
aaaacagccg ttcataaatg caaaaaaatt ctgatttata tatgaaataa tttctagatc 540
aattcaacat atttgatgac atttggtgag ttt 573

```

```

<210> 332
<211> 555
<212> DNA
<213> Homo sapiens

```

```

<400> 332
aaatttgaaa gttgtaagca ctgatgttaa tgtgattgat cagcatgggc atatgtaaaa 60
tgtccttttc tggttgcctc tctatgctat tgtgttcaga tacttacacc ataattaaac 120
agtaagttat agacttgctg agtttggcat agatagtgcg ctcatTTaat ctgtgcctct 180
caaaacttca gaatattagc atattaccac aaataatttt tggtgaaact attgagatat 240
taaaattttt gaaatcacta ctgttacctg ttatagaaaa tagtgttggc ttagtctagt 300
ctctgtgtaa ctggttacat tttgatggtt gtctatactc aactggatat gtgtatgtaa 360
attagaaaa acatacctat ccagacataa atgctaagta acattttttt cttcctccaa 420
ctacataaatt tgtagctcat catttttcct taatcctttc ctaacttgtc gcagcagttt 480
gaatttccca gatatttatg tttgaacata atggctcaga atacataatt gaacatcata 540
gttgtatata ttttt 555

```

```

<210> 333
<211> 460
<212> DNA
<213> Homo sapiens

```

```

<400> 333
aaatttcttt caacagtcta ttgggggtcca aaaagcatat atcaaaacaa aaataacaaa 60
agcaaaacaa aatgctacat gtaaaagcta aagaaagaaa atgcagcata ttcaggttct 120
ttttcttgag gtacctatat aaatttaatc acctgcccc aagtcctctc gttaggttaa 180
aaacacaatg cgtcctgggg agccaattgc ccggcacgtc ttattactga gaaagtgcaa 240
gaatgctgat catcttatgc agcatactaa aggatgattt actctttaca aaatagagct 300
taagtatcaa cctgatggaa gttagaaaat taaaaacatt taagtagaat catctctctc 360
tctatttttg agatcctgca gcaaaaagcc tcccaaatac actttcaaag ttctgccatt 420
aaggaatgtt ggttctcttg taaaattcag agatctcttt 460

```

```

<210> 334
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 334
ccaaggaagg ctgtgctcta gccatctga ccctgtctgc aaaccacctg ggggacaagg 60
ctgatagaga cctgtgcaga tgtctctctc tgtgcccctc actcatctca ctggatctgt 120
ctgccaaccc tgagatcagc tgtgccagct tggaagagct cctgtccacc ctccaaaagc 180
ggccccaagg 190

```

```

<210> 335
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<400> 335
aaatttggac agacttctag cggacagtta cttctcaaga attttctata caaaagctgt 60

```

```
<210> 336
<211> 429
<212> DNA
<213> Homo sapiens
```

```
<210> 337
<211> 373
<212> DNA
<213> Homo sapiens
```

```
<210> 338
<211> 366
<212> DNA
<213> Homo sapiens
```

```
<210> 339
<211> 319
<212> DNA
<213> Homo sapiens
```


<400> 339
 ccttccctcc ccaccacccat caacctcttc aaaacctact ccctccctct aagtatctct 60
 caacacagta tgtctggggc tagatttcaa aacccacgta atgaaaaagt cagttttaca 120
 agcctaattt tgttgTTTT tttttatat caattaacgt taaaaattgc atcaactatt 180
 taattcatga ggatctttca tattaaaatt taaccttaag attcaaccgc catgtgcttt 240
 tataaaggaa acatttttta gagacgtctg agctcacttt tacatggtgg tgcctactgc 300
 cgtaaatggt tgtgatttt 319

<210> 340
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 31, 44, 58, 70, 71, 106, 140, 148, 156, 164, 171, 174,
 180, 187, 190, 196, 219
 <223> n = A,T,C or G

<400> 340
 ctaataaaat gaattaacca ctcattnatn natctaccca ccnatccaa catctccnca 60
 tgatgaaacn ncggtcact ccttggcgcc tgctgatcc tccaantcac cacaggacta 120
 ttcttagcca tgcactactn accagacncc tcaacngcct ttnnatcaat nggncacatn 180
 actcganacn taaatnatgg ctgaatcatc cgctacctnc acgccaatgg cagcctcaat 240
 attctttatg ctgcctcttc ctacacatgc gggcgagg 278

<210> 341
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 341
 ccagcatggg gctgcagctg aacctcacct atgagaggaa ggacaacacg acggtgacaa 60
 ggcttctcaa catcaacccc aacaagacct cggccagcgg gagctgcggc gccacctgg 120
 tgactctgga gctgcacagc gagggcacca ccgtcctgct ctccagttc gggatgaatg 180
 caagttctag ccggtttttc ctacaaggaa ttcagttgaa tacaattctt cctgacgcca 240
 gagaccctgc ctttaaagct gccaacggct ccctgcgagc gctgcaggcc acagtcggca 300
 attcctacaa gtgcaacgcg gaggagcacg tccgtgtcac gaaggcggtt tcagtcaata 360
 tattcaaagt gtgggtccag gctttcaagg tggagggtgg 400

<210> 342
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 342
 aaagaacaat gggaaaaaca agtccgtggt ctacagatg ctgtcgatga cattaacttc 60
 attgatgact tcttggtgt ctacagagaat cacatttttg aagatgtgaa caaatgtgtc 120
 attgctctcc aagagaagga tgtggatggc ctggaccgca cagctggtgc aattcgaggc 180
 cgggcagccc gggtcattca cgtagtcacc tcagagatgg acaactatga gccaggagtc 240
 tacacagaa aggttctgga agccactaag ctgctctcca acacagtcac gccacgtttt 300
 actgagcaag tagaagcagc cgtggaagcc ctacgtcgg accctgcca gcccatggat 360
 gagaatgagt ttatcgatgc ttccgcctg gtatatgatg gcatccggga catcaggaaa 420

```
<210> 343
<211> 646
<212> DNA
<213> Homo sapiens
```

```
<210> 344
<211> 383
<212> DNA
<213> Homo sapiens
```

```
<210> 345
<211> 263
<212> DNA
<213> Homo sapiens
```

```
<210> 346
<211> 132
<212> DNA
<213> Homo sapiens
```

<400> 346
aaatccaaat acaaaagcat agtctctqca agattttqtt ctttgaattt cttgatattg 60

taattgatta ttgataactg tcatcatgaa attatctctc aataataaga taaataaact 120
agcatatgaa tc 132

<210> 347
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 484
<223> n = A,T,C or G

<400> 347
cctgggtatc cagggaggct ctgcagccct gctgaagggc cctaactaga gttctagagt 60
ttctgattct gtttctcagt agtcctttta gaggcttgct atacttggtc tgcttcaagg 120
aggctcgacct tctaattgat gaagaatggg atgcatttga tctcaagacc aaagacagat 180
gtcagtgggc tgctctggcc ctggtgtgca cggctgtggc agctgttgat gccagtgtcc 240
tctaactcat gctgtccttg tgattaaaca cctctatctc ccttggggaat aagcacatac 300
aggcttaagc tctaagatag atagggtgtt gtccttttac catcgagcta cttcccataa 360
taaccacttt gcatccaaca ctcttcaccc acctcccata cgcaagggga tgtggatact 420
tggcccaaag taactggtgg taggaatctt agaaacaaga ccacttatac tgtctgtctg 480
aggnagaaga taacagcagc atctcgacca gcctctgcct taaaggaaat ctttattaat 540
cacgtatggt tcacaagata attc 564

<210> 348
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3, 12, 23, 70, 80, 89, 101, 123, 131, 151, 168, 177, 185,
212, 220, 222, 233, 253, 255, 263, 264, 286, 287, 300, 302,
315
<223> n = A,T,C or G

<400> 348
gcncatgaac anggagcaac ganaagagat gtcgggctaa gggcccggga cgggcggcac 60
ccatcctgcn acggaacacn ttcggttnt ggttttgatt ngttcacctc tgtttatatg 120
canctatttg ntctctctcc cccaccccag ncccacactt catgcttntc ttccgcnctc 180
agccnccctg cctgtctctc gcggtgagtc antgaccacn gnttcccctg cangagccgc 240
cgggcgtgag acnngaccc tcnntgcata caccaggccg ggcccnngct ggctccccc 300
gnggccctgt gaaanagctg g 321

<210> 349
<211> 255
<212> DNA
<213> Homo sapiens

<400> 349
ccatgacagt gaaggggctg ttaggaatat caacaccacc gaagcgcaca tagatcacat 60
atgtgcccgg cttggcagct gtgtagaaga tgtcataggt tccatcttca ttctcaatga 120
catcggcctc ggccctcagtg ccatctgggg tcagaaccgt gcaggtcact ttacccttcc 180

cggcagtctt ggcatcaacc acaaagccta cttcttcgcc agttttcaca gtggaggcga 240
ttccaggacc cgtag 255

<210> 350
<211> 496
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 10, 27, 96, 110, 112, 309, 360, 447, 455
<223> n = A,T,C or G

<400> 350
gggcttattn gctcacaaaa tcattcnctt ttggaactat ggccaattga agctacacac 60
tgaatttatt aatacagcat taagtttctt tgtgtnaaaa aatctttgtn cncagtaata 120
aaaaaagata aggcaagatg cattaaacat gaaaccttct ggctcttttc ctctgcgttt 180
ttacagagcc actgatgact atctgcaaca aaagagttaa gtttctgatt ttccgtatca 240
agcatcttat gcctttgctg tggtaagaat tctggccaag caccctgaag gacagatgct 300
ggtgatggnc tttggcactt atgctggcaa actgagcttc ttcccttga gtacttttgn 360
aatgtacaag tagaagaagt cacaagtata ggatggtctg gactacgccg gccaccacag 420
caatgaggtc aaagaagccc tcaaagnaga agcgnccaga tccagttgac aagatacaaa 480
gcacgataga ggccca 496

<210> 351
<211> 109
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 49
<223> n = A,T,C or G

<400> 351
ccatagtga gcttggaat gagtggtact gcagcatctg ggctgccanc cacagggag 60
ggccaagccc catgtagccc cagtcattct gccagcccc gctcctgg 109

<210> 352
<211> 384
<212> DNA
<213> Homo sapiens

<400> 352
ccttcgagag tgacctggct gccaccagg accgtgtgga gcagattgcc gccatcgcac 60
aggagctcaa tgagctggac tattatgact caccagtggt caacgcccgt tgccaaaaga 120
tctgtgacca gtgggacaat ctggggggccc taactcagaa gcgaagggaa gctctggagc 180
ggaccgagaa actgctggag accattgacc agctgtactt ggagtatgcc aagcgggctg 240
cacccttcaa caactggatg gagggggcca tggaggacct gcaggacacc ttcattgtgc 300
acaccattga ggagatccag ggactgacca cagcccatga gcagttcaag gccaccctcc 360
ctgatgccga caaggagcgc ctgg 384

<210> 353
<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 19, 41, 59, 110, 124, 131, 230, 231, 239, 245, 247, 273,

280, 284, 285, 296, 303, 325, 343

<223> n = A,T,C or G

<400> 353

```
ccttggtcag gatgaagtng gctgacacac cttagcttgg ntttgcttat tcaaaagana 60
aaataactac acatggaaat gaaactagct gaagcctttt cttgttttan caactgaaaa 120
ttgnacttgg ncaacttttg gcttgaggag gcccattttc tgccctggcag ggggcaggta 180
tgtgccctcc cgctgactcc tgcctgtgtcc tgagggtgcat ttcctgttgn ncacacaang 240
gccangntcc attctccctc ccttttcacc agngccacan cctnntctgg aaaaangacc 300
agnngtcccg gaggaaccca tttgngctct gcttgacacag canag 345
```

<210> 354

<211> 712

<212> DNA

<213> Homo sapiens

<400> 354

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ccatctacaa tagcatcaat ggtgccatca cccagttctc ttgcaacatc tcccacctca 60
gcagcctgat cgctcagcta gaagagaagc agcagcagcc caccagggag ctccctgcagg 120
acattgggga cacattgagc agggctgaaa gaatcaggat tcctgaacct tggatcacac 180
ctccagattt gcaagagaaa atccacattt ttgccccaaa atgtctattt ttgacggaga 240
gtctaaagca gttcacagaa aaaatgcagt cagatatgga gaaaatccaa gaattaagag 300
aggctcagtt atactcagtg gacgtgactc tggacccaga cacggcctac cccagcctga 360
tcctctctga taatctgcgg caagtgcggg acagttacct ccaacaggac ctgcctgaca 420
accccgagag gttcaatctg tttccctgtg tcttgggctc tccatgcttc atcgccggga 480
gacattattg ggaggtagag gtgggagata aagccaagtg gaccataggt gtctgtgaag 540
actcagtgtg cagaaaagggt ggagtaacct cagcccccca gaatggattc tgggcagtgt 600
ctttgtggtg tgggaaagaa tattgggctc ttacctccca atgactgccc taccctgctg 660
gaccccgctc cagcgggtgg gggattttct tggactatga tgctggggga gg 712
```

<210> 355

<211> 385

<212> DNA

<213> Homo sapiens

<400> 355

```
cctcatagcc gcttagcaca gttacagaat gtctgaaggg gacagtgtgg gagaatccgt 60
ccatgggaaa ccttcgggtg tgtacagatt ttccacaaga cttggacaga tttatcagtc 120
ctggctagac aagtccacac cctacacggc tgtgcatggg gtcgtgacac tgggcctgag 180
ctttgtctac atgattcgag tttacctgct gcagggttgg tacattgtga cctatgcctt 240
ggggatctac catctaaatc ttttcatagc ttttctttct cccaaagtgg atccttcctt 300
aatggaagac tcagatgacg gtccttcgct acccaccaaa cagaacgagg aattccgccc 360
cttcattcga aggtctccag agttt 385
```

<210> 356

<211> 347

<212> DNA

<213> Homo sapiens

<400> 356
 aaatgagata aagaaagtct ccttttgttt ttagatggaa aagaaagcac aagttttttc 60
 tacctgtgaa tgaactttgg tgacctatat gtgccattca tgcagcattt ttgttcatat 120
 tggcttagaa ttcagtgcac gaatatcatt acattcttat atctaacatt cctagttagc 180
 tttgattcaa aatatacaaa atctgatata tgaatacttt gctagattaa tgacttgatc 240
 atctttggaa tgagtaggca agacgatttt tacctattat ttctatgttg tgggtaatgt 300
 taaaactaaa tacagatgat aataattgct atttcacagt gatgttt 347

<210> 357
 <211> 313
 <212> DNA
 <213> Homo sapiens

<400> 357
 aaagtaatca acctctctgt ccttccatta gtctggatcg tctaaagatt gttttatttt 60
 tagaggctca tccggtcaga tgttagtgat gtgaaatttc aggccaggcg tgacgtcagc 120
 gtggcatttg aaacagctcc atgttgccct tagtgctgtc tgaccgaagc ctgtctgtcc 180
 tcagatataa agatgaagcg cagctgtata aagaagagca cctgaggaaat cggcagcacc 240
 ctcaactgcta cgttcagtag atgatcgcca tcatcaacaa ctgccagacc ttcaaggaat 300
 ccatagtcag ttt 313

<210> 358
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 358
 aaaaagaagg acttaggggtg tcgttttcac atatgacaat gttgcattta tgatgcagtt 60
 tcaagtacca aaacgttgaa ttgatgatgc agttttcata tatcgagatg ttcgctcgtg 120
 cagtactgtt ggtaaataga caatttatgt ggattttgca tgaatacac agtgagacac 180
 agtaatttta tctaaattac agtgcagttt agttaatcta ttaatactga ctcaagtgtct 240
 gcctttaaat ataaatgata tgttgaaaac ttaaggaagc aaatgctaca tatatgcaat 300
 ataaaatagt aatgtgatgc tgatgctgtt aaccaaaggg cagaataaat aagcaaaatg 360
 ccaaaagggg tcttaattga aatgaaaatt taattttgtt ttt 403

<210> 359
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 359
 aaataaatac ttagaacacg acttggtctc tacaagcatc tggactctag gtctcagtag 60
 tggagtgtct caccatggg cccacgcag ggacgccacg gttccctccc acccgtgat 120
 caagacacgg aatcggtgc cgatggttg atcgcaatgc gccccttttc tagagccttc 180
 cccggccatc tacaggcagg atgcggttg gaaaaagaca actggaattt ctggaagggt 240
 gatggtccgc acggttgagg attctacgtg gttctcttgg tccccctgg gtgtgtgtgt 300
 gtggaggagg ccgcggccct tagatcacct tcttgagctc gtcgtacagg accagcacga 360
 aggcgcccc catgccccgc aggcagttgg accacgcacc cttgaagaag g 411

<210> 360
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 276, 328
 <223> n = A,T,C or G

<400> 360
 cctcttcagg ggccccgagcc agggacaggg ccttggtttc cttctccctg gcttctgcct 60
 cagctctgtc cctctcatcc gcgtatttgg aagagatgtt tttctcctcg gctaacaact 120
 gatcaaattt cctctgcttc ttttccaggt tggacacgag ttgccgctgg ttgtccaaat 180
 caacaaccag gtctgtccagc tcctgctgaa gcctgttctt ggtcttttcc agtttatcat 240
 aagcgggcgc cttctcctcg tactgctggg tgaggntctc gatctccttc tggaaacctct 300
 tcttccccctc ttccagagct tccacggngc tggcaaagtc ctgcagcttc ttcttcgagt 360
 cggagagctg gatgttga 378

<210> 361
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 361
 aaatactggg ggccattaag agtggatgta gctaagagct tagctaacat tgccttttca 60
 ctctattttt ctcagatatt gtaagcattc tgtttttcaa tattgtagtt aatttttttg 120
 ctttcaacag cagccctagt aatgggtggag ttgttaatta atgtgtatat tgtactgaat 180
 ttctgtcagt taaggggttc actgcttttg tggaaattgg tggaaattgc tagcagggttc 240
 cacgatgttt atttttttct ccatgtttgta tatcattacc atttcacata cgcgttttcta 300
 tttttcttcc tctcctcctg atctccttaa aaatgaatct agagttgggtg gctttttccc 360
 cctcctcttt gg 372

<210> 362
 <211> 544
 <212> DNA
 <213> Homo sapiens

<400> 362
 cctgagtcac ctagcatagg gttgcagcaa gccctggatt cagagtgtta aacagaggct 60
 tgccctcttc aggacaacag ttccaattcc aaggagccta cctgagggtc ctactctcac 120
 tgggggtccc aggatgaaaa cgacaatgtg cttttttatt attatttatt tgggtggctc 180
 gtgttattta agagatcaaa tgtataacca cctagctctt ttcacctgac ttagtaataa 240
 ctcataactaa ctggtttggg tgccctgggtt gtgacttcta ctgaccgcta gataaacgtg 300
 tgccctgtccc ccagggtgggt ggaataattt acaatctgtc caaccagaaa agaattgtgtg 360
 tgtttgagca gcattgacac atatctactt tgataagaga cttcctgatt ctctagggtcg 420
 gttcgtgggt atcccattgt ggaaattcat cttgaatccc attgtcctat agtcctagca 480
 ataagagaaa tttcctcaag tttccatgtg cggttctcct agctgcagca atactttgac 540
 attt 544

<210> 363
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 363
 aaactggtta tgacaaaagc ctttagttgt gtttcttgaa ctataaagaa aacaaatttt 60
 ggcagtcctt aagtatatat agcttaaaat ataattttta gcatttggca ccatatgtat 120

```
gccattatat ttgattttgc attactgttt cacaatgaag ctttctttaa ggctttgatt 180
tttatgatta tgaaagaaat aaggcacaac cacagttttt ctttcttaaa ttcatcact 240
gttgatgtgg ttcttttgtg ttaaaaaaaa aaagtgcacac tatcaaaact aaaaaattat 300
agagtaatat tgccgttctg ctgatttt 328
```

```
<210> 364
<211> 569
<212> DNA
<213> Homo sapiens
```

```
<400> 364
cctggggcacc tctttgcttg aaatatggca agacttggaa aaatgtttgc ccttagaatc 60
tatctcacta ctttagttag ttgtctcctt tgggcctggg cacagttctg gccctgatct 120
ggaacagact cccttttcta aaactgaact tgaccacatc aaaagtttgt aaaacaatct 180
ccatggtaat taaacttgca ttcaacacca tatggtaaca gaagatggca aaggataaga 240
ttcagatctt agatctttcc aagtagggca tgtagatga tagaaggatt agttgcaagc 300
tggatctgag ctcaggcttg ggcatagaag aaactgtctc ccatgtggtt tggaagagtt 360
aggggctccc tgagctctat tgtgaactat acgggtttca tccaaggaat ggtatgatgt 420
gggcataaaa ccattcttca gacaactgaa gatgggtccc ttctgtagcc agaaaacta 480
gctgtcctgc attgtccatt tccttttagcc ccaggcgggc ctgtgtgtac agggaggtct 540
cctgtaaggg aatgggtttcc ttggcttgg 569
```

```
<210> 365
<211> 151
<212> DNA
<213> Homo sapiens
```

```
<400> 365
aaaaaaaaaa atccttttat tatggaattt gtcaaacaca cacacaagca taacaaaccc 60
ctaggtagccc atctccaagt tttagaccct attataattt catcttcagt gttttattat 120
ccacttcctc tctctctatc ttttagtattt t 151
```

```
<210> 366
<211> 508
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 43, 99, 132, 136, 138, 142, 180, 204, 208, 228, 233, 249,
293, 307, 309, 347, 358, 374, 401, 434, 436, 440, 442, 463
<223> n = A,T,C or G
```

```
<400> 366
agtataaaga tatattccat aaaagagttt ggcagtcaaa ganaagcatc gcacttccga 60
aaaacacaag cattcttctc ctagtctaca gagaattgng taaaaaaaaa aaaaaatcat 120
catcaacagc cncantnta cncacacta gaatgtacac tccggcaagt aaattaaggn 180
tgcagtccat ccctgaacga tganaagnng tctgagctat ggcaaagngt tanaaagtag 240
cccagctana caaatgcccc agctatcccc aggggagtta ttcagtactt aanacttcat 300
ttccaananc agccccggaa aagccctgac aggaaggggg gaccagnat caccgatntc 360
ccattagggg cggncaccaa aaacaaaatg cctggagctt ntgagcagct gcagcctggg 420
gttgtggcta ggcncngggg gnggttgcaa aaaaacgggt gtntccgggg agaggcaaat 480
ggcaggccag ccagccctgg gtacatgg 508
```


<220>

<221> misc_feature
 <222> 644, 646, 689
 <223> n = A,T,C or G

<400> 371
 aaattacata tctaattgtg tgatttggtt aatgcccatt tcttcatcta agtgctaagt 60
 gctaagtgtg gcagtttggt ccctgctaca ctccaaggca caaaggagtt caaggaatgt 120
 gcaatggaaa tcagtttagat gaatgtgtta ggaaccttcc ctttaataaa gctggatccc 180
 aactagccc ctacaccctc tcatcaccaa atattcctgc ttcctctcac ctgcacttgc 240
 tgttctctcc tctgccacac aaatctacct ctcaagccta ggtcccacct gcttcatgac 300
 aactttccag actattccag aacctttaac catctctgac ctctcatcag atctatgttg 360
 tacataacac caattaatga gatcattact gctttatgct ctaattgctt cctgtattca 420
 aaatcttctc tccaaccaca taatgactcc ctaaacttct cttgtatatt ccaatgcctt 480
 gtacaagcac agaactggtc aatcaataaa tactcactgg ttatttgagg aaaaaatgtt 540
 gccaagcacc atctttatca gaaaataaat caattcttct aaacttggag aaatcacccct 600
 attcctagta tgtgatctta attagaacaa ttcagattga gaangngaca gcatgctggc 660
 agtcctcaga gccctcgctt gctctcggn cctccctgcc tgggctccca ctttggtggc 720
 atttgaggag cccttcagcc t 741

<210> 372
 <211> 218
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 57, 218
 <223> n = A,T,C or G

<400> 372
 ccgccagtgt gctggaattc gcccttggcc gcccgggcag gtaccacaac agcaggncctg 60
 agtgagaaat ctaccacctt ctacagtagc ccagatcac cggacacaac actctcacct 120
 gccagcacga caagctcagg cgtcagtga gaatccacca cctccacag ccgaccaggc 180
 tcaacgcaca caacagcatt ccctggcagt accttggc 218

<210> 373
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 373
 actgctaggg aatgctgttg tgtgcattga gcctggtcgg ctgtgggagg tgggtggattc 60
 ttcactgacg cctgagcttg tcgtgctggc aggtgagagt gttgtgtccg gtgatctggg 120
 gctactgtag aaggtggtag atttctcact caggcctgct gttgtggt 168

<210> 374
 <211> 154
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25, 34
 <223> n = A,T,C or G

<400> 374
 tgagaaatct accaccttct acagngagcc ccanatcacc ggacacaaca ctctcacctg 60
 ccagcacgac aagctcaggc gtcagtgaag aatccaccac ctcccacagc cgaccaggct 120
 caacgcacac aacagcattc cctggcagta cctc 154

<210> 375
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 375
 actgccaggg gacagtgctg tgtcagttga acctgggctg ctgtgggaag ttgttgattc 60
 ctgactgggg cctgaggttg tgggtgctggc aggtaacagt gttgtatccg ttgagcctgg 120
 gctgctgttg gaagttgtag aatgccgact gaggcctggc gtggtggtgc tgtcagggaa 180
 tgctgtttgt tgcgttgagc ctggtcggct gtgggaggtg gtggattctt cactgacgcc 240
 tgagcttgtc gtgctggcag gtgagagtgt tgtgg 275

<210> 376
 <211> 191
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 173
 <223> n = A,T,C or G

<400> 376
 actgccaggg gacagtgctg tgtcagttga acctgagctg ctgtgggaag ttgttgattc 60
 ctgactggag cctgaggttg tgggtgctggc aggtaacagt gttgtatccg ttgagcctgg 120
 gctgctgttg gaagttgtag aatgccgact gaggcctgcc gtggtggtgc tgnntagggaa 180
 tgctgctagc g 191

<210> 377
 <211> 476
 <212> DNA
 <213> Homo sapiens

<400> 377
 ccgccagtgt gctggaattc gcccttggcc gcccgggcag gtacatttcc ttgtagactc 60
 tgtaatttc ctgcagctcc tggttggttc tggagcagat gatctcaatg agagagtcct 120
 cgtcggttcc cagcccttcc atggaagctt ttagctcaga agcgtcatac tgagcaggtg 180
 tcttcaatag gcccaaaatc accgtctcca ggtggccaga taaggctgac ttcagtgtctg 240
 atgcaagttc ctttttggtc cttctctggt aggcgaaggc aatatcctgt ctctgtgcat 300
 tgctgcgggt ggtcaaaatg ttgacaatgg tgacctcatc cacacctttg gtcttgatgg 360
 ctgtttcaat gttcaaagca tcccgctcag catcaaagtt agtataggct ttgacagacc 420
 catatgcact tgggggtgta gagtgatcac cctccaagcc gagcttgcac aggatt 476

<210> 378
 <211> 455
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 370
 <223> n = A,T,C or G

<400> 378
 agtgtgctgg aattcgccct tggccgcccg ggcaggtaca catcccatct tcaaatttaa 60
 aatcatattg tcagttgtcc aaagcagctt gaatttaaag tttgtgctat aaaattgtgc 120
 aaatatgtta aggattgaga cccaccaatg cactactgta atatttcgct tcctaaattt 180
 cttccaccta cagataatag acaacaagtc tgagaaacta aggctaacca aacttagata 240
 taaatcctac caataaaatt tttcagtttt aagttttaca gtttgattta aaaacaaaac 300
 agaaacaaat ttcaaaaata atcacatctt ctcttaaaac ttggcaaacc cttccctaac 360
 tgtccaagtn tgagcatata ctgccactgg ctttagatac tccaattaaa tgcactactc 420
 tttcactggc ctgaatgaag tatggtgaaa caagc 455

<210> 379
 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16, 289
 <223> n = A,T,C or G

<400> 379
 agctcggatc cctagnacgg ccgccagtgt gctggaattc gcccttagcg gcggcccggg 60
 caggtacaaa gaatccttag acgccatact gagttttaag ttccttaatt cctaatttaa 120
 ggcttctagt gaagcctcct cacagtaggc ttcactaggc ccacagtgcc cctagacctc 180
 tgacaatccc accctagaca gactttattg caaaatgcgc ctgaagaggc agatgattcc 240
 caagagaact caccaaatac agacaaatgt cctagatctc tagtgtgna gaactat 297

<210> 380
 <211> 144
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 72
 <223> n = A,T,C or G

<400> 380
 actttgctga aaattctttt tcccagggtc tataaaacat taatttggtt ttatatttta 60
 ctattttttt gngttttttt gtttttaaat caataagtaa tctaggacta gcattatggt 120
 tgctagacct ggcatttgct cggc 144

<210> 381
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 381
 actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg 60

```

aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tgattcttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttaca gcaatttgat aaaatataact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtataacag aatacatttg 420
aaaa                                              424

```

```

<210> 382
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<400> 382
actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg 60
aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tgattcttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttaca gcaatttgat aaaatataact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtatgac          408

```

```

<210> 383
<211> 455
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 70, 72, 73, 184, 185, 330
<223> n = A,T,C or G

```

```

<400> 383
actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa aactttaatg 60
aactaactgn cnccttcatg aaactgtcca ccaagatcaa gcagagaaaa taattaattt 120
catgggacta aatgaactaa tgaggataat attttcataa ttttttattt gaaattttgc 180
tganncttta aatgtcttgt ttcccagatt tcaggaaact ttttttcttt taagctatcc 240
acagcttata gcaatttgat aaaatataact tttgtgaaca aaaattgaga catttacatt 300
ttctccctat gtggtcgctc cagacttggg aaactattca tgaatattta tattgtatgg 360
taatatagtt attgcacaag ttcaataaaa atctgctctt tgtataacag aatacatttg 420
aaaacattgg ttatattacc aagactttga ctaga          455

```

```

<210> 384
<211> 376
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 276, 357
<223> n = A,T,C or G

```

```

<400> 384
actcttgaat acaagtttct gatattcactg cactgtctga gaatttccaa aactttaatg 60

```

```
<210> 385
<211> 422
<212> DNA
<213> Homo sapiens
```

```
<210> 386
<211> 313
<212> DNA
<213> Homo sapiens
```

```
<210> 387
<211> 236
<212> DNA
<213> Homo sapiens
```

```
<210> 388
<211> 195
<212> DNA
<213> Homo sapiens
```

ccttacgcat cctttacata acagacgagg tcaacgatcc ctcccttacc atcaaataca 180
 ttggccacca atggt 195

<210> 389
 <211> 183
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31, 32, 60, 115
 <223> n = A,T,C or G

<400> 389
 taacactcac aacaaaacta actaatacta nnatctcaga cgctcaggaa atagaaacn 60
 cctgaactat cctgcccgcc atcatcctag tcctcatcgc cctcccatcc ctacncatcc 120
 ttacataaac agacgaggtc aacgatccct cccttaccat caaatcaatt ggccaccaat 180
 ggt 183

<210> 390
 <211> 473
 <212> DNA
 <213> Homo sapiens

<400> 390
 acaaagcagc aactgcaata ctcaagggtta aaacattaga aaagcatttg tgtgacaggt 60
 atattacagt attatcaaaa tattacattt tcagacttac ttagcagata atcatccacc 120
 agagcttaaa tctttaaatt atttccatag tcttaaaaaa tatgtaatgt cagaatgcat 180
 ataaaaagaa tgtaaaagga aacctaaaat acaaattggaa taatgtaaca aataaatatt 240
 tgatttcagt aactgttaat aatcagctca acaccacat tctctctaaa ctcaatttaa 300
 ttcttatagg aataatgaac tgtcaaattgc catggcataa ttatttattt ccaagctatc 360
 atcaatgatt agaactaaaa aaaatttggc ataaaaaaat cacaattcag cataaataaa 420
 gctattttta gcttcaacac tagctagcat ctctaagaat tgttgaaata agt 473

<210> 391
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41, 42
 <223> n = A,T,C or G

<400> 391
 atttgtattt taggtttcct ttacattct ttttatatgc nntctgacat tacatatttt 60
 ttaagactat ggaaataatt taaagattta agctctggtg gatgattatc tgctaagtaa 120
 gtctgaaaat gtaatatattt gataatactg taatatacct gtcacacaaa tgctttttcta 180
 atgttttaac cttgagtatt gcagttgctg ctttgt 216

<210> 392
 <211> 98
 <212> DNA
 <213> Homo sapiens

```
<210> 393
<211> 397
<212> DNA
<213> Homo sapiens
```

```
<210> 394
<211> 373
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 283
<223> n = A,T,C or G
```

```
<210> 395
<211> 411
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 327
<223> n = A,T,C or G
```

```

<400> 395
actgatcatt ctatttcccc ctctattgat ccccacctcc aaatatctca tcaacaaccg 60
actaatcacc acccaacaat gactaatcaa actaacctca aaacaaatga taaccataca 120
caacactaaa ggacgaacct gatctcttat actagtatcc ttaatcattt ttattgccac 180
aactaacctc ctcggaactc tgctcactc atttacacca accaccaat tatctataaa 240
cctagccatg gccatccctt tatgagcggg cgcagtgatt ataggctttc gctctaagat 300

```


taaaaatgcc ctagcccaact tcttacngca aggcacacct acacccctta tccccatact 360
agttattatc gaaaccatca gcctactcat tcaaccaata gccctggccg t 411

<210> 396
<211> 411
<212> DNA
<213> Homo sapiens

<400> 396
actgatcatt ctatttcccc ctctattgat cccacacctc aaatatctca tcaacaaccg 60
actaattacc acccaacaat gactaatcaa actaacctca aaacaaatga tagccatata 120
caacactaaa ggacgaacct gatctcttat actagtatcc ttaatcattt ttattgccac 180
aactaacctc ctcggaactc tgcctcactc atttacacca accacccaac tatctataaa 240
cctagccatg gccatcccc tctgagcggg cgcagtgatt ataggctttc gctctaagat 300
taaaaaatgcc ctagcccaact tcttaccaca aggcacacct acacccctta tccccatact 360
agttattatc gaaaccatca gcctactcat tcaaccaata gccctggccg t 411

<210> 397
<211> 351
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 7, 71, 93, 208, 276, 340, 345
<223> n = A,T,C or G

<400> 397
ngccgangta caaaaaaaaaag cacattccta gaaaaaggta ttggcaaata gtaaaaatgg 60
gagggtcaaaa ncaaaaaaaaaa aaaaaacaaa acnaaaaaaa gaaaaaacca acaatttctt 120
aattcagtggt gcaaacatta tataaaaaata gaaatactaa ctctacaggc agtatttctt 180
gataaattat ttaaataagca tatctacnca atctgagata tctattccaa tggcaatgag 240
aaaataattt ataaaaataa agcaatggta taccanatga tagaaaaaaa cataactttc 300
agaaattgta ttttaacattt caatgctatt tccttattgn gaatncttct c 351

<210> 398
<211> 363
<212> DNA
<213> Homo sapiens

<400> 398
acaaaaaaaaa gcacattcct agaaaaagggt attggcfaat agtaaaaatg ggagggtcaaa 60
agcaaaaaaaaa aaaaaaacaa acaaaaaaaaa agaaaaaac acaatttctt caattcagtg 120
tgcaaacatt atataaaaat agaaatacta actctacagg cagtatttcc tgataaatta 180
tttaaatagc atatctacac aatctgagat atctattcca atggcaatga gaaaataatt 240
tataaaaaata aagcaatggt ataccagatg atagaaaaaa acataacttt cagaaattgt 300
atttaacatt tcaatgctat ttccttattg ggaatacttc tctgcagagt ttttatgcta 360
tgt 363

<210> 399
<211> 360
<212> DNA
<213> Homo sapiens

[illegible]

```
<400> 402
nacataatga caacatcttc actagactga gtgttcaagg atttgagatg attcgctatt 60
catcacaccc cgaagattga gatccactgt atttacacaa agcaaagcca tgtcagcaag 120
```

ggactgtcaa cctgattctg agaacataaa cattcaaaat ttattttcca gtgttccttt 180
 ttggaaacca acaacacatc ttttaatacct acacacacac acatctntac ctttaaaaaa 240
 aaaaaaaaaag tgnaacttca cagatagt 268

<210> 403
 <211> 538
 <212> DNA
 <213> Homo sapiens

<400> 403
 acagtgatag ctccccctgg gcaatacaat acaagaacag tgggttttgt caaattggaa 60
 caaggaaaca gaaccacaga aataaatata ttggttaaca tcagattagt tcaggttact 120
 tttttgtaaa agttaaagta gaggggactt ctgtattatg ctaactcaag tagactggaa 180
 tctcctgtgt tctttttttt tttaaattgg ttttaatttt ttttaattgg atctatcttc 240
 ttccttaaca tttcagttgg agtatgtagc atttagcacc actggctcaa tgcgctcacc 300
 taggtgagag tgtgaccaa tcttaaagca ttagtgctat tatcagttac caccatttgg 360
 ggcttttatc cttcatgggt tatgatgttc tctgatgac acatttctct gagttttgta 420
 attccagcca aagagagacc attcactatt tgatggctgg ctgcatgcag acatttaaag 480
 cttttagaga atacactaca ccaggggagta tgactactag tatgactatt aggagggt 538

<210> 404
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 404
 tttttttata gatacaattg gctttttattt gtgattcatg agtcagggca gtttccattc 60
 tgcaaaatat agtgatagct cctactgggc aatacaacag tagaacagtg ggttttgtaa 120
 aatgggaatc caggaacaga agaataataa taaattgatt taaataaact gattgggttaa 180
 tttcagaata cttcatatta ctttttttcta agagttaaag cagaaaggac tttcttactg 240
 tgctgactca gacagcctgg actctcatgt ttttaggaaa attttgtctg ttctgggatc 300
 tacctgcttc 310

<210> 405
 <211> 559
 <212> DNA
 <213> Homo sapiens

<400> 405
 acaaatcaca attattaact cactggtagg gcagtgatga tcaaaccaat tgcattcatc 60
 catgctgtaa tgttctctct tggcactaaa ggctgactgc agccggcaaa aaagaatgta 120
 agtatgaatt tataaaaaaca ttttagatgg ctgacaacgg atcttatttt taaagaatat 180
 gtctaattca gaggatcgac aactaatcca tttcaataaa acaatgggga attttttatt 240
 gaataaaaat gtaatatgca taaaaactca agaaggcttt ttaaaaatac ttctcccca 300
 atcattatcc catacttcat gctaattttt aaaagaatct tgaaatcttg aaaacaagat 360
 gaagagaatc ttgttttaag tgacaagtta acattattcc tatattaaat gtcaaactgc 420
 tattaatgag tagaagtagg aacaaacccg gatcttagga tcctgtccag ggctcattcc 480
 ataactccta tatcaciaag acaagatctg gaaccagaaa acagtcatca tccaatgtgc 540
 atcagccttg cggcaacag 559

<210> 406
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 406

```
acaacagaat atctcgggaa tggactcaga agtatgccat gtgatgctac cttaaagtca 60
gaataacctg cattatagct ggaataaact ttaaattact gttccttttt tgattttctt 120
atccggctgc tcccctatca gacctcatct tttttaattt tattttttgt ttacctccct 180
ccattcattc acatgctcat ctgagaagac ttaagttctt ccagctttgg acaataactg 240
cttttagaaa ctgtaaagta gttacaagag aacagttgcc caagactcag aattttttaa 300
aaaaaaaaatg gagcatgtgt attatgtggc caatgtcttc actctaactt ggttatgaga 360
ctaaaaccat tcctcactgc tctaacatgc tgaagaaatc atctgagggg gagggagatg 420
gatgctc 427
```

<210> 407

<211> 419

<212> DNA

<213> Homo sapiens

<400> 407

```
acaatttgta gttgtttcca ggtttggcta ataatcattc cttaacctag aattcagatg 60
atcctggaat taaggcaggt cagaggactg taatgataga attaaattag tgtcactaaa 120
aactgtccca aagtgtctgt tcctaatagg aattcattaa cctaaaacaa gatgttacta 180
ttatatcgat agactatgaa tgctatttct agaaaaagtc tagtgccaaa tttgtcttat 240
taaataaaaa caatgtagga gcagcttttc ttctagtttg atgtcattta agaattacta 300
acacagtggc agtgttaaat gaagatgctg tctacaaggt agataatata ctgtttgata 360
ctcaaaacat ttttcatttt gtttaaagta gaagttacat aattctatat tttaagtct 419
```

<210> 408

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 520

<223> n = A,T,C or G

<400> 408

```
acatttgatg ttatgtgaat gttgagtttt tttcttctaa ttttcacttc agcagtgttt 60
agggttttca gatgccttat tccagtgtga acagaaaaag ttcataattt atgtgggttaa 120
tgctttgatg tgtcacataa agagtagttt gtagaaaatg ttggcacaat tttaacttct 180
tagtggcttg tgacattata tattatata atagtatat atatctttat aacattcctg 240
tgttttagtag tgtaaagtgt ctgggcaagt tttaatattt tgaatgcctt tggatattcc 300
agcaataaag gcatcatggt ctgcaatagg atttcttact catttaccta ttttaacact 360
aaaatagacc acaactgagc acaaattcct tttataaatg ttatagaagc agggagaaga 420
aataaacaca tttgtgaatt gtgggttcagt ttatttatct ttagggaagg ctgatcattt 480
atcttatagc acataacccc agcctcttat tcattatggn taa 523
```

<210> 409

<211> 191

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 156, 190


```

gcttcaaaaa aagtgtaaga aagagtgata agatcaactt taatcattct tggatcttca 180
gcaaattcag gatcaatgta gaaaaaactt ggcataatcta cttcctcttg gggattaagc 240
ctttgttctt caaaacagaa gcactgtatt ttattgaaat actgtccacc ttcaaattga 300
acaatattgt atgna 315

```

```

<210> 413
<211> 554
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 479, 542, 551
<223> n = A,T,C or G

```

```

<400> 413
acaggtttca ctattacaaa tatatgatgt taaactaaca aactcatgac cttcaaagat 60
gtcttcgtcc caccacacac catttgtaat ttgtgtccat ttgctatttc ccttcttcta 120
taatcttcaa attatatagt tatgcattga gtccoctatg catctcacc atctccttta 180
tctcagcctt ctcatacttt gccattctct tctttctgga aataaccagc acaacaattc 240
cagcaacaac tgctatcacc acaaccacaa taacagcaat aacaccagct tttagaccct 300
gcattgagaa ttccagggtgt ttttcatcaa cataataaat taaagtttga ccaggatcca 360
gatccagttg ttccccattt actgtcaggt gccattttct tagaatgaaa caaggattca 420
cctttaacat ctttttcaaa ataataagcc acatcagcta tgtccacatc attctgagnt 480
ttttgagaag aattttgaac cagatcaata gtgataacat tattctcata caaaatactc 540
gngataaatt ntgg 554

```

```

<210> 414
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<400> 414
accagaaagg cacacgattt tacaatatatt gttggaatta ccttactttt taacctcctc 60
atagcagttt tgggttgagt atattgatga aagccaaagt ctggtatcta aaacttgggc 120
caatgtttcc caactgggat atgtcaggct ttcccaatag ctttaactgtg accctatacg 180
gatggctttt tagatagttc tatactgctg tattgtgtta gcacttttct ttgtcattaa 240
caacacactt taaatgacat ttggtga 267

```

```

<210> 415
<211> 454
<212> DNA
<213> Homo sapiens

```

```

<400> 415
accggaacct gcagaaacag tgtgagaaat taagtcctgg ttcactgcgc agtagcaaag 60
atggtcaagg ccatggaaaa agcagaaatt taccaagaaa gctgataccc atgtatagtt 120
cccactcatc tcaaatacat ctgctatctt tttaagctaa gtcctagaca tatcggggat 180
aacatggggg ttgattagt accacagtta tcagaagcag agaaatgtaa ttccatattt 240
tatttgaaac ttattccata ttttaattgg atattgagtg attgggttat caaacacca 300
caaactttaa ttttgtaaa tttatatggc ttgaaatag aagtataagt tgctaccatt 360
ttttgataac attgaaagat agtattttac catctttaat catcttgga aatacaagtc 420
ctgtgaacaa ccaactcttc acctagcagt atga 454

```

<210> 416
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 416
 ccgacacggt gccagcgccc tgctgcgtgc ccgccagcta caatcccatg gtgctcattc 60
 aaaagaccga taccgggggtg tcgctccaga cctatgatga cttgttagcc aaagactgcc 120
 actgcatatg agcagtcctg gtccttccac tgtgcacctg cgcggaggac gcgacctcag 180
 ttgtcctgcc ctgtggaatg ggctcaagggt tcttgagaca cccgattcct gcccaaacag 240
 ctgtatttat ataagtctgt tatttattat taatttattg ggggtgacctt cttggggact 300
 cgggggctgg tctgatggaa ctgtgtattt atttaaaact ctggtgataa aaataaagct 360
 gtctgaactg 370

<210> 417
 <211> 463
 <212> DNA
 <213> Homo sapiens

<400> 417
 acactttata tattccaaat tgatcagata tatggtttgc aaattcatct caatctgtag 60
 cttatctttt cctcttttta aatcacaagt ttttaaattt tgaagaagtc caatatatca 120
 gattttgtct tttatggatg tgctttcggg gcaaagtcca agaacttgtc acctagccca 180
 agatcctgaa gatttttctc ctgtggcttt tttcaaagtt atctagtttt atgtatcaca 240
 ttttaagtccg ttatacattt tgagttaaatt tttatataag atgtgagggt taagtagagg 300
 ttcttttttc tctcgcctat ggggtgtctaa ttgctctagc ataatttgtc agaaaggcta 360
 ttcttcctcc attgaattgc tttttcactt tttcaaaatc agctgagcat atttatatgg 420
 gtttattttct gggttctctc atctgttcca ttgacgtatg tgt 463

<210> 418
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 418
 ttagcatttg cttttatttt tttactttga tgccctttca aattggcatg tctttaaagt 60
 atttttcttc ctgattaaaa atgtgtgtgt atgtgtgtgt gtgtgtgtat atatatatat 120
 ttttaaataca catttaatttt accaagtga accaagccat actgtttttg agccaattaa 180
 gaaaattgcc attttttaaag tgtagcattt cagggttaaag acccatgaaa tggcttgatg 240
 tattctagac tactgaaaga aaaccacttc aaagattttg ttgaaagttt tagtgttgtc 300
 tgaaatgcaa gagggaaggt gattggtagt gagt 334

<210> 419
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 419
 acttctttga ccaaggaata ccacagacac cctaccgata gaacagtggc tcagatctta 60
 cttgctcctg cttacgaagt attcccaatc actggtcac tgaccctact tgaacactcc 120
 tgaacagtca tgttttttaa aatcttccct tatatcaagt cagagagtat acttctataa 180
 atttcaactca tggatgttag gaaactctagt catcttccct gtgattgcc tgttaagtat 240
 ttaaccatag ctatcatgtg tttcccaaat cttctctaga ttaaatactc tcagtta 297

<210> 420
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 420
 acgagaggaa ccgcaggttc agacatttgg tgtatgtcct atcaatagga gctgtatttg 60
 ccatcatagg aggcttcatt cactgatttc cctattctc aggctacacc ctagacccaaa 120
 cctacgccaa aatccatttc gctatcatat tcatcggcgt aaatctaact ttcttcccac 180
 aacactttct cggcctatcc ggaatgcccc gacgttactc ggactacccc gatacataca 240
 ccacatgaaa tatcctatca tctgtaggct cattcatttc tctaacagca gtaatatata 300
 taattttcat gatttgagaa gccttcgctt cgaagcgaaa agtcctaata gtagaagaac 360
 cctccataaa cctggagtga ctatatggat gccccccacc ctaccacaca ttcgaaga 418

<210> 421
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 421
 acgcctggac ccctgtgact tgcagcctat ctttgatgac atgctccact ttctaaatcc 60
 tgaggagctg cgggtgattg aagagattcc ccaggctgag gacaaactag accggctatt 120
 cgaaattatt ggagtcaaga gccaggaagc cagccagacc ctctggact ctgtttatag 180
 ccatcttcct gacctgctgt agaacatagg gatactgcat tctggaaatt actcaattta 240
 gtggcagggt ggttttttta ttttcttctg tttctgattt ttgttggttg ggggtgtgtg 300
 gtgt 304

<210> 422
 <211> 578
 <212> DNA
 <213> Homo sapiens

<400> 422
 actgtgcagg cagattcaca ggggtggtggt aaagcatcca caatggctct ggcagcatca 60
 ggatcacact tgaaggggct ctgagacaaa gttgtattca tgcaactgat tccttttcca 120
 ttctgtttct tagtcactaa tgctttccaa tgggtcatgag tgcttttaaat aatatcaatg 180
 gcaaagtcct tatctttaaa ttctgcatta aacgcaaact catcttcttg ttttccatca 240
 ggaaccttat accttctaaa ccagtccaca gtagcttcta agtagccagg tttcagccgt 300
 ttgacatcat tgatatcatt ataattggct gcatcaggat catccacatt aatggcaatg 360
 actttccagt cggtttcccc ttctgcaatc atagccaata tgcctagaac tttcaattat 420
 ttatttcacc tcttgacat accttgcttc caatttcaca cacatcaatt gggtcattgt 480
 caccacaaca gccagtatgt ttatcattgt gcctgggtc ttcccaagtc tgagggatgg 540
 caccatagtt ccagatatat cctttatacg ggaacaaa 578

<210> 423
 <211> 327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 309, 312
 <223> n = A,T,C or G

<400> 423
acagtatatatt tttagaaact catTTTTtcta ctaaaacaaa cacagtttac tttagagaga 60
ctgcaataga atcaaaaattt gaaactgaaa tctttgttta aaaggggttaa gttgaggcaa 120
gaggaaagcc ctttctctct cttataaaaa ggcacaacct cattggggag ctaagctagg 180
tcattgtcat ggtgaagaag agaagcatcg tttttatatt taggaaattt taaaagatga 240
tggaaagcac atttagcttg gtctgaggca gggtctgttg gggcagtggt aatggaaagg 300
gctcactgnt gntactacta gaaaaat 327

<210> 424
<211> 384
<212> DNA
<213> Homo sapiens

<400> 424
acgaaaaata aatctcctta aaaactaaat aaaatgcact gtattcttac agttaatggt 60
tataactata gtaaaaaatt aatatatatc ctattacata aatgttattt cttaggtggt 120
ccattaagaa gagcaataga ataatgctaa aaaataatgc ctataaatct tcagagtata 180
aagacatcca ttcagaaaca aaaatttagca ctaaattttt tataaaatag accagatgac 240
aaaatttatt ttatttttaa acagtgggtt tgacacaaat tatgttattg aaaagcatta 300
ttaatgttta atttatttaa aattttggaa tttgccattt ctcagagaat gatcaggcct 360
taggaaatta atacagtagt agta 384

<210> 425
<211> 255
<212> DNA
<213> Homo sapiens

<400> 425
actatcaggc tttgtgctga tttcctgaac aaactgcatt atattatgaa aacaaaagga 60
aaagaagaaa taataaaaac tatactccca tatttcactt acagtgtttg agttcctgga 120
aggacctata taatggaggc agcattcaaa caagaaatta tgccaatcaa ctgtcaaatt 180
ttcactataa ttttcctaaa aaggcgtttt tcccccaata tctattaatc tcaaagaaac 240
ataagttgtg aatgt 255

<210> 426
<211> 196
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 10, 11
<223> n = A,T,C or G

<400> 426
acatgaantn nccaggccca cacagccaga cagcaacaga accaagacct agggctcttc 60
actcctgtta catcacacca tggcaatgat ttacattctt ccaactgatt caaatcatat 120
ggcagctagg gatttggggg ctccatgttt tatttcaatt gcaagttcaa gatttctttt 180
tatctttgtg ggctga 196

<210> 427
<211> 163
<212> DNA
<213> Homo sapiens

<400> 427

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acagaagatc catggaggca agtgctgtca ggaaggacac tgcctccctc caccctccca 60
aatgtcacca ccaagttcct tcagggtgaga cctcacacaa tgtcaagtgc tttctaggaa 120
atactaagat caggttgaga gattctgctt ggtctagtca atc 163
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<210> 428

<211> 315

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 10

<223> n = A,T,C or G

<400> 428

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nactgagtan agatgctggg gaatgtgcaa tatgccttga agaattgcag cagggagata 60
ctatagcacg actgccttgt ctatgcatat atcataaagg ctgcatagat gaatgggttg 120
aagtaaatag atcttgccct gagcacctt cagattaagc gtcagcttcc tgttttatag 180
gttttcttgt cttgacaaga tgcttgaaaa accaagagga tatgaaaatc tgtctctgga 240
gaaacaaaga cgcaggcata ctcagccaga aatctgagtt ttgtgagact tggtaataca 300
gagatggaca atcgt 315
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<210> 429

<211> 131

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10, 42

<223> n = A,T,C or G

<400> 429

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acagttaggn actagaacat ttgttaagcc tcccaaagta gngtgcattg aagattctag 60
agtgtccagc tcttgacta caaatgtaat aataacagaa taaatacact taccctgatg 120
atattgaggg t 131
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<210> 430

<211> 503

<212> DNA

<213> Homo sapiens

<400> 430

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actgattttt aataaaagaa ataaggttca aagtttagca caacaacaca gcaataagaa 60
gctgacaact tggataaaaa tacaagaaag taacacagag ccagggtac ccattattta 120
ctgtgtgcat acaggaatgc tatacttcag atgtataaat tagagactga ttttaagtta 180
ttaatttaac tactttttgt ccactgtgct aaactaaatt ttataactaat gtgctactgc 240
gtaaacactt caaagcaatc ttcattaaaa tgctgcaaag aaaaacaaga atacacatca 300
tccaaaacta aggatgtcat tgcagttcac agtttgtata ataaataccc tccctttcaa 360
tcactactaa gatcactaca tcctatctac tcatcagcac aaccttgaag caacttatac 420
ttacaaatat tagcaatgca gccaaacatt tgttttttgc aaagcaacta gtaaaaatca 480
agaattttta ttaagacggt gca 503
```

<210> 431
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 431
 acaagtgtgg cctcatcaag ccctgccag ccaactactt tgcgttttaa atctgcagtg 60
 gggccgccaa cgtcgtgggc cctactatgt gctttgaaga ccgcatgac atgagtcctg 120
 tgaaaaacaa tgtgggcaga ggcctaaaca tcgccctggg gaatggaacc acgggagctg 180
 tgctgggaca gaaggcattt gacatgt 207

<210> 432
 <211> 485
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 43, 56, 59, 435, 438, 453
 <223> n = A,T,C or G

<400> 432
 aaaaaaagta atggaaaaat ggttgcaggt ttaatcncaa aangaactta attttngtng 60
 attttgtttt atctgctaaa acactaatat ctataaatat gaactgacag catcgttcta 120
 aatttacttc tgaagagctg tcgagacttc aataaaatat aagcaagtta ctggatcata 180
 tttatggact gctgaattaa ctacccgaaa agtatcagtt actttcaaag aacacaaaac 240
 aaagtgaacg tggaaaaaag ctttctttgc aaaagtcctt ttattagtcc tatcctctaa 300
 aattccaagc cacagagcct tgatattcct ggattctggt ttaagtaacc ttagtttttaa 360
 atatgacact tgggatatgc acaatgggaa agggtaggat atgtgaacaa aatttaattt 420
 cttttttcca aaggnagnca ttttctttta atncatccta tccacttttg ccacttccc 480
 catgt 485

<210> 433
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 433
 actgtcacta caatattaca ttctgcaaat gttattctgt tgtatcagat acaaaatttt 60
 agtgaggtat ctctaaggca catagtagaa aacaaaattg gtttaattact caagttcctt 120
 tcaactgtgat ttggaaatga tttaatcttt atagaatgag aacctttttt ggactagctt 180
 ttttattaaa atggctcaat ttgtgttgat aaggattgca ttaatatatta atagtgcctg 240
 cttttcctct gggcacacca ttttgatcat taaccagagt 280

<210> 434
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 434
 ctttgctgcg catcaggtgc ttttaagcttc ggaacaactg tgcaggattc tatttttagta 60
 ttctggaagc atcattgagg aagtagtcca gtgaagttag ctctaaaaaa actctttact 120
 ctaacaatta aaagaaatat gccaaaggat ccataaggga tgaataaatt attaaactat 180

taagaagttg ctataaatat gcagtgttaa ttcaataatt cataacggac tggt 234

<210> 435

<211> 330

<212> DNA

<213> Homo sapiens

<400> 435

acctcccgtg tcaccagttc ccacagaagc actgcaaaac tccacatgtc tgctgagcgt 60
ctgttttgtgt cttcaggctt cttctgcaga gcttcggggg ctaccaggc aggtgcatac 120
atgcgaccag gacattggaa agagaacttg acatcagcca tgctaattcg ggcagtcagt 180
tcctcatcaa tcattacact acggctattg agtgcatgtc gtgggatgag gggctctagt 240
gtgtgtagga aagccatgcc ccttgccatg tccaaagcaa acttcacagc ctggctctgg 300
tccacgacga aattggtgcc ttcatgtagt 330

<210> 436

<211> 311

<212> DNA

<213> Homo sapiens

<400> 436

acaactttac aatggaattg tatttcaatg attatittga tatcagatta aaccttccaa 60
aaagttacac ataattcagg tctatitttt ctaccagtaa gagttctgct aaattacaaa 120
accccataat cacagtgttc agtttttaaa aaattaaaca cacagtaatc ctgtcaatgt 180
taatcaaaat caaaacttcg gaatgccgtg gcatttatgt gaccaatctg agtttttagat 240
acaaatacca gctgtttatc ccatgaacca tttttcctag gctgaggctg tgaaaaatcg 300
aaagtcggcg t 311

<210> 437

<211> 355

<212> DNA

<213> Homo sapiens

<400> 437

actagtggat gggggtcagg gtgtcactcc aaggccctct acagaccag agaagaggaa 60
agtcaaaaaa gccagatatg agactgctga agtggtgtta agaaatatag gcaaggtaaa 120
gggaacaaga tctgggctcc ctctactctg tgtccctcac tggacctcag acaccctacc 180
tctaagactg gttcttagaa ggctgaacag taaggagcat tccaatagct tctgaaactc 240
ccaaggctgt ttcaagtagt cgaaagccat ccctggactg ttcagggtgcc ttttctattt 300
cccacctgag ctctctgccc tttcttttag cctcacaggt ttccagaatt acagt 355

<210> 438

<211> 431

<212> DNA

<213> Homo sapiens

<400> 438

acagtaactt taactttaca tagagctgag ataaaaataa agctttctta caaattacat 60
tttttttcca gtgaattact tttgcagtaa aaatagctgc tacataaatc cctcctgac 120
tctgaaaagg agttgcatac ttccaaaaat aatattctta ttttaatcac acagaagaac 180
gtggagcaca ggaaggaaat ggctgggtgg tcagagagag gtgagctgtc ggagaaacac 240
agttaaaacta aaaaaataaaa tccattttgt gtataaactg acttaaacgc atgcaaagaa 300
gtggaaaaaca tatgccattt gtcaagaaaa atactgcttt atagctttta ctttacaatt 360
aaaggagaaaa gcagaggcca gatataagcc cagataataa catttaagtt tctcataaaa 420

ctcccaaattg t

431

<210> 439

<211> 170

<212> DNA

<213> Homo sapiens

<400> 439

actgtcataa aaaacagtgg agctctgtat tagaaagccc ctcagaactg ggaaggccag 60
 gtaactctag ttacacagaa actgtgacta aagtctatga aactgattac aacagactgt 120
 aagaatcaaa gtcaactgac atctatgcta catattatta tatagtttgt 170

<210> 440

<211> 400

<212> DNA

<213> Homo sapiens

<400> 440

acgtaaaaag aacatccttc ccatcttcaa ggtcaagatt gaacgctgac tcctgcagga 60
 agtcttccag gattcccagg caggaatgat ggctccctgt ccctgtagct ccaggagttc 120
 ttgcttcacg cacgcctcac ataccagact gaatgttggc aggaggagtg accaggtcgg 180
 tcatctgtgt ccctaccacc tacaacaggc cagcaatcta cccgtgtgtg tttgttggac 240
 agaattaacc atgatggcg gccgagggcg cctggagcta tttgggggct tggagagaac 300
 ctcttaggag agtgtcaggc tctaggccag tgtcaccaga ggaggtcagt ctcagtcctt 360
 ggagtgggtg gatggaaacc agacgggact ggcattggtcc 400

<210> 441

<211> 204

<212> DNA

<213> Homo sapiens

<400> 441

acctagttac ttcttaagat caggtgtata aaactgtgga gtggagcggc atggtatgga 60
 atgacttgga atgtaagctg tcagggagaa aatgttgta cacttttgct aagatctggg 120
 ggtttcttca tattcctgct gttggaagca gttgaccaga aatgcttgcc agtactgcca 180
 aagcactgct gtgaaatgtg aagt 204

<210> 442

<211> 649

<212> DNA

<213> Homo sapiens

<400> 442

acatttaatt ttttacaaca ttttctccct agagatataa tttagatatt cctatcttca 60
 aagtaaaaat caaaatagga aataagcata gaaacagcct attggcagtg gttacacctg 120
 catggatatt atgagttctc aaactatttg aaatttattt caaccaaggc tctcttaagt 180
 cttcattact tgggtgtaac tcgagagaaa actaatat atcaatttac agtttagtgg 240
 tcatgatcag gggaaagtga tactcttcca ctgactacaa gtcattgcag aggcagttta 300
 gaacttttcc tttattccta atatacagga caaaccttgc cgacatctca ctacctcaa 360
 aatcaaattt aaatgaagta tccaggagta gcctaaagaa tgagtgtaat ctggatggat 420
 tttagtctaa atttatgcct tgctcttcag taaagtatag taactccaga tatatgttcc 480
 acagatgcaa taatttctgt tccttggtcg gtgcagaata taatttatac ttcctgaaat 540
 caactttgtc tattcatgaa aatagctgct ttttatttgc ctttgtctca ctttgaatat 600
 atatgatcca cagggttacag acttttccaa taactacatt tcaacttgt 649

<400> 446

tcgaaaagacc	cctgtaaaaag	agcccaacag	tgaaaatgta	gatatcagca	gtggaggagg	60
cgtgacaggc	tggaagagca	aatgctgctg	agcattctcc	tgttccatca	gttgccatcc	120
actaccccgt	tttctcttct	tgctgcaaaa	taaaccactc	tqcccatttt	taactctaaa	180

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<210> 447
<211> 304
<212> DNA
<213> Homo sapiens
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<400> 447						
ncntcnaggt	acatgctaga	agtctgatgt	ngtnngtaac	acagaaacat	acacagtctt	60
catattcaaa	gtcttcacng	ggatgtcggt	ctgtaatttc	ctgcgtttgg	gtctcttcca	120
gaaacagctt	tagcttcctg	ctccgaaggc	caaacacctt	ggctgcttca	tacagaagac	180
cttggtgggg	gagtcattc	tgcccaagtg	ggttttcaag	caggagagtg	cccactgtcc	240
ccattaaaca	ctcttggtgc	tttgcatcca	ggagctgtag	gttgatatac	tgacaaggaa	300
gagt						304

```
<210> 448
<211> 203
<212> DNA
<213> Homo sapiens
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<400> 448
acatgaaagc ggcaatgcgg taaaaagcga attcttacct aaggtcagaa ttttttatta 60
agcgcatttt cattagttgg acaaacaacc ttataaaccc ttatgtcaaa ccatataatg 120
tgaagaatct ccattgggga gatttttttt cacccttcag aattatcttt ttcccctaag 180
accttcatat gaatcttcct tgt                                     203
```

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<210> 449
<211> 481
<212> DNA
<213> Homo sapiens
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<220>  
<221> misc_feature  
<222> 458  
<223> n = A,T,C or G
```

```

<400> 449
acttgttcta taatactctg atgtttcctt aaatttcctga acaacattct gtttactaaa 60
tttctttttct tccttttattc acaccaaatt ccaccctata atagaagcta attattttcag 120
aaagcttttt agtgatcatt tattactttg tgtttactag atattaattc taagatgaat 180
tccttttagaa ttttagaaaa aattattcta gacaacaatc aaagtaaagg atacatccag 240
cattgaaaacc ataagccggc aagtctccag gttaaaaggt ttgtatcctc cagcaatgcc 300
agactgtgtc agacatctct gcaattcatc agcatctatc tgccatcctt gtccagctac 360
agcagcaaaag taaccataca gcggatcctg agtttgtcg ggaaacgcag gccctccggg 420
agccctcca tactgcatct tgagttgaag tcttatangt agaagctggt gatccttaga 480
g

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<210> 450
 <211> 296
 <212> DNA
 <213> Homo sapiens

<400> 450
 acatggttta atacaacaac aaaaaaattt aatcaagtga aacgtaataa actgaacaat 60
 aaacactcaa aacattttcc attggaaaca tgtaaagaca atatgagggtt ttgttaccat 120
 cttactgcaa ttttcttatg tgttactagt ctacataccc catgttttct gtaatcatgc 180
 agatgtgaat ggaagtttga atgattaaat aaatgaaaag tccgtttact gcagggaatc 240
 atttcacaag gcagccaaac cgggttttaga gaacaaaact attcaagaaa ttctcc 296

<210> 451
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 6, 20, 198
 <223> n = A,T,C or G

<400> 451
 acatgntcca aggcacgcgn ctgtgaactt cctctgagtg aaggcatccc ctccagcacc 60
 tttcagcctg ctagtttagga cgacccgccc ccaccctcca ggacctccag ccctgcactg 120
 cctttcctct cttttaaata attcttcatt gagttctaata atgtaaaaaa aaagtttact 180
 gtaaagtttg caaataanga aatttttttt aaaagtcctc agtaatctta ccagtaacaa 240
 ttgttatggg cacatttgct tttggaagat ttcttttgta tgcatgggat aagt 294

<210> 452
 <211> 129
 <212> DNA
 <213> Homo sapiens

<400> 452
 acttttagat cacaaatttg cctttaagta acacataata cacttaaggc agatttgcct 60
 tacaggtggc ctcagcttct aaacaccact acactgcttt atataaaaaa caaaaatcac 120
 atagaagag 129

<210> 453
 <211> 151
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 10, 44, 46, 47, 150
 <223> n = A,T,C or G

<400> 453
 actctcaann tgtatttagg tgccaacaca tttaggatca ttgngnnttc tcagtgaatt 60
 gaccttttta tgagaataaa atgtctatct ctgaaatgtc cctatttctg gaaatgttcc 120
 ttataactaaa gtccaacttg tgtggattan t 151

<210> 454
 <211> 119
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9
 <223> n = A,T,C or G

<400> 454
 tgctgatgna gcatgctttt taaatccttt aaaaacactc accatataaa cttgcatttg 60
 agcttggtgtg ttcttttgtt aatgtgtaga gttctccttt ctcgaaattg ccagtggtgt 119

<210> 455
 <211> 515
 <212> DNA
 <213> Homo sapiens

<400> 455
 accttataaa gttccttttc atcctttctct gtcttcaact gacattcaag ttgttctctt 60
 tcatgttggtg ccttcttgag ttgggccttt aaactgtcta attcggtttc tttttcaatt 120
 gctttatgtg ttactgacac aatatcttcc tcaagctgat gggctttgga tgtagcatca 180
 ctgaacctct tcttaaaactc ttcattttcc atttttaagc ttgtgttac ttcagtaaga 240
 cctttttgtt ctgcttgacg ttggtcacat ctttctttct catgggtaag ttctctttcc 300
 attctcccaa cttgttctcg aagttgtgct gtttcttttt ccagaacggc aattaacttt 360
 aacagttctt ctttttcttt catgggtttc tcaattttca actcaagaag gcctgctttt 420
 gtggtcacca ctaacatgtc agaatttcct tcatcttcca tagtaagcag ctcttcaact 480
 ggagaagaag ctcgaaactg gaaaggtgta cctgc 515

<210> 456
 <211> 350
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 310, 326
 <223> n = A,T,C or G

<400> 456
 actccctcc ccaaataga acctcaaaga ctgatccatt tcccctaggg cctgggccag 60
 gagtagctca ctgctcactg ctgaggagaa aggcacaaga tataatgtca taagagcagg 120
 acagtggctc agcctacaga gttccctata ggggaaagaa ggcaggaaat aggcgcaggg 180
 tctggctctg tccctgcacc accctgagca gctagtcttg ggaagggatt acaggccctg 240
 ggccataggc tgctcgccat tctgctttcc tctcctgttt ctctccctgt gctgctccct 300
 ttttagccagn gctgagaaat gttcancacc tgaggcaaaa ctgcatagtg 350

<210> 457
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 457

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gcagggccaa cagtcacagc agccctgacc agagcattcc tggagctcaa gctcctctac 60
aaagaggtgg acagagaaga cagcagagac catgggaccc ccctcagccc ctccctgcag 120
attgcatgtc ccctggaagg aggtcctgct cacagcctca cttctaacct tctggaaccc 180
accaccact gccaaagtca ctattgaatc cagccattc aatgtcgcag aggggaagga 240
ggttcttcta ctgcgccaca acctgcccc gaatcgtatt ggttacagct ggt 293
```

```
<210> 458
<211> 500
<212> DNA
<213> Homo sapiens
```

```
<400> 458
actagactcc agattaccct ttcttaataa atatctcagg gtaaggaaag aaagaaactg 60
tatagatata tttaaaatag agaatacttt ccaagcaata catgatgcct ttcctaaaag 120
actctaaaag aaaaagattc tgtaactctc ttttagcacc aaattattgt ttatcttgct 180
ggatatttta tatgaacagt gttaatttag atgcactaaa gcaaaggtag gcaaactaca 240
accatgagtc aaacatggcc acaccattc atttgctatt gtctaagctg gttttgcact 300
acaactgcag agttgaatag atgcagcaga tcctttacag aaaaagtttt ctgacctcaa 360
ttctaaagta attgtagtag ggagctggag gactttcttt ccctttatgg taattttttg 420
agctacaaaa agagccttgc agaaatgggt gaagggatta atctttttaa aataaatgct 480
atatattagg aaaataaaaa 500
```

```
<210> 459
<211> 394
<212> DNA
<213> Homo sapiens
```

```
<400> 459
ggtgaaaaga cttgattttt tgaaaggatt gtttatcaaa cacaattcta atctcttctc 60
ttatgtattt ttgtgcaacta ggcgcagttg tgtagcagtt gagtaatgct ggtagactgt 120
taagggtggcg tgttgcaagt cagagtgcct ggctgtttcc tgttttctcc cgattgctcc 180
tgtgtaaaga tgccttgtcg tgcagaaaca aatggctgtc cagtttatta aaatgcctga 240
caactgcact tccagtcacc cgggccttgc atataaataa cggagcatac agtgagcaca 300
tctagctgat gataaatata cctttttttc cctcttcccc ctaaaaatgg taaatctgat 360
catatctaca tgtatgaact taacatggaa aatg 394
```

```
<210> 460
<211> 279
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 4
<223> n = A,T,C or G
```

```
<400> 460
actnccgatt gaagccccca ttctgtataat aattacatca caagacgtct tgcactcatg 60
agctgtcccc acattaggct taaaaacaga tgcaattccc ggacgtctaa accaaaccac 120
tttcaccgct acacgaccgg gggatatacta cggatcaatgc tctgaaatct gtggagcaaa 180
ccacagtttc atgcccacgc tcctagaatt aattcccccta aaaatctttg aaatagggcc 240
cgtatttacc ctatagcacc ccctctagag caaaaaaaa 279
```

```
<210> 461
```

<211> 278
 <212> DNA
 <213> Homo sapiens

<400> 461
 tttggacact agggaaaaaac cttgtagaga gagtaaaaaa tttaacaccc atagtaggcc 60
 taaaagcagc caccaattaa gaaagcggtc aagctcaaca cccactacct aaaaaatccc 120
 aaacatataa ctgaactcct cacacccaat tggaccaatc tatcacccta tagaagaact 180
 aatgttagta taaagtaaca tgaaaacatt ctctccgca taagcctgcg tcagattaaa 240
 aactggact gacaattaac agccaatatc tacaatca 278

<210> 462
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 462
 aacgtccaag ggggccacat cgatgatggg caggcgaggag gtcttggtgg ttttgtattc 60
 aatcactgtc ttgccccagg ctccggtgtg actcgtgcag ccacgcacag tgacgctgta 120
 ggtgaagcgg ctgttgccct cggcgcggat ctcgatctcg ttggagccct ggaggagcag 180
 ggccttcttg aggttgccag tctgctggtc catgtaggcc acgctgttct tgcagtggta 240
 ggtgatgttc tgggaggcct cgggtggacat caggcgagcag aaggctcagct ggatggccac 300
 atcggcaggg tcggagccct ggccgccata ctcgaaactgg aatccatcgg tcatgctctc 360
 gccgaaccog acatgcctct tgtccttggg gttcttgctg atgtaccagt tcttctgggc 420
 cacactgggc tgagtggggt acacgcaggt ctccaccagtc tccatgttgc agaagacttt 480
 gatggcatcc aggttgccag cttgggttggg gtcaatccag tactctccac tcttccagtc 540
 agagtggcac atcttg 556

<210> 463
 <211> 659
 <212> DNA
 <213> Homo sapiens

<400> 463
 cacactgtgc ccttccagtt gctggccccg taaaaaggcc tgaacctcac cgaggatacc 60
 tacaagcccc ggatttacac ctgcgccacc tggagtgcct ttgtgacaga cagttcctgg 120
 agtgacagga agtcacaact ggtctatcag tccagacggg ggcctttggt caaatattct 180
 tctgattact tccaagcccc ctctgactac agatactacc cctaccagtc cttccagact 240
 ccacaacacc ccagcttccct cttccaggac aagagggtgt cctgggtccct ggtctacctc 300
 cccaccatcc agagctgctg gaactacggc ttctcctgct cctcggaaga gctccctgtc 360
 ctgggcctca ccaagtctgg cggtcagat cgcaccattg cctacgaaaa caaagccctg 420
 atgctctgcg aagggtctct cgtggcagac gtcaccgatt tcgagggtg gaaggctgcg 480
 attcccagtg cctggacac caacagctcg aagagcacct cctccttccc ctgcccggca 540
 gggcacttca acggcttccg cacggctcct cgcccccttct acctgaccaa ctctcaggt 600
 gtggactaga cggcgtggcc caagggtggt gagaaccgga gaacccagg acgcccctca 659

<210> 464
 <211> 695
 <212> DNA
 <213> Homo sapiens

<400> 464
 accttcattt gaccccatca gcttcagggc cttctttaca tttccactgg cctgatccat 60
 gtatgcaatg ctatTTTTTgc agtgatatgt gatgttctgg gaagctcggc tggagagaag 120

```
<210> 465
<211> 73
<212> DNA
<213> Homo sapiens
```

```
<210> 466
<211> 507
<212> DNA
<213> Homo sapiens
```

<400>	466					
agcactggca	gaggnagcca	aataatagtg	tgtgcgccag	agataagtat	tctcctctcc	60
aagcatattg	ctatacaaga	ctttaaagac	ttcataaaaag	caaacttg	agagtccctg	120
catggagtag	ccaaggaaag	tcggaagcca	tcctttagcc	aaaccacgaa	caccatcctc	180
tttaagtgt	actgagaatc	cgtaaatat	gcccttgtac	ttttgggggt	ccacctgcat	240
acggcatttc	actaaatcca	ggggaaccac	agcagtgtgt	gtcagaccac	aacttaagac	300
cccaccaaag	ccacacagt	cataatactt	cgcgagacca	aattcacaac	tgtactcttc	360
cacggcggcg	gctgccaggt	tgcgagggcg	gcggggctgg	cccggtggcc	ctggggagct	420
gctgcggagg	tccccgagac	catcgtgcac	canctgcaga	tgtggcgtgt	tgaaggggtt	480
cqcccgcgcc	aggtgcacca	cggacga				507

```
<210> 467
<211> 183
<212> DNA
<213> Homo sapiens
```

```
<400> 467
cctcatgagc  taccggggcca  gctctgtact  gaggctcacc  gtctttgtag  gggcctacac  60
cttctgagga  gcaggagggga  gccaccctcc  ctgcagctac  cctagctgag  gagcctgttg  120
tgaggggcag  aatgagaaaag  gcaataaaag  gagaaagaaa  aaaaaaaaaa  aaaagggcgg  180
ccg                                                183
```

$$\begin{array}{ll} \langle 210 \rangle & 468 \\ \langle 211 \rangle & 129 \end{array}$$

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 29, 81, 84, 90, 108, 110, 123, 128
<223> n = A,T,C or G

<400> 468
gcgggcgcgt cgacgggcgc cgtcggggcnc cgggcccgggc catggagctg tggacgtgtc 60
tggcgcgcggc gctgctgttg ntgntgctgn tgggtgcagtt gagccgcncn gccgagttct 120
acnccaang 129

<210> 469
<211> 243
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15
<223> n = A,T,C or G

<400> 469
gcgggcgcgt cgacnngcca tggagactgt ggcacagtag actgtagtgt gaggctcgcg 60
ggggcagtg ccattggaggc cgtgctgaac gagctggtgt ctgtggagga cctgctgaag 120
tttgaagaaga aatttcagtc tgagaaggca gcaggctcgg tgtccaagag caccagtttt 180
gagtacgcct ggtgcctggt gcggagcaag tacaatgatg acatccgtaa aggcacgtgt 240
ctg 243

<210> 470
<211> 452
<212> DNA
<213> Homo sapiens

<400> 470
cctcaagtac gtccggcctg gtggtggggt cgagcccaac ttcattgctct tcgagaagtg 60
cgaggtgaac ggtgcggggg cgcaccctct ctgcgccttc ctgcgggagg ccctgccagc 120
tcccagcgac gacgccaccg cgcttatgac cgaccccaag ctcatcacct ggtctccggt 180
gtgtcgcaac gatgttgctt ggaactttga gaagttcctg gtgggcccctg acggtgtgcc 240
cctacgcagg tacagccgcc gcttccagac cattgacatc gagcctgaca tcgaagccct 300
gctgtctcaa gggctcagct gtgcctaggg cgcccctcct accccggctg cttggcagtt 360
gcagtgtctgc tgtctcgggg gggttttcat ctatgagggg gtttcctcta aacctacgag 420
ggaggaacac ctgatcttac agaaaatacc ac 452

<210> 471
<211> 168
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 18, 37
<223> n = A,T,C or G

<400> 471
 cttctccgct ctttctanga tctccgctg gttcggnccg cctgcctcca ctccctgcctc 60
 taccatgtcc atcagggtga cccagaagtc ctacaagggtg tccacctctg gcccccgggc 120
 cttcagcagc cgctcctaca cgagtgggcc cggttcccg c atcagctc 168

<210> 472
 <211> 479
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 71, 87, 182, 218, 288, 322, 358, 386, 407, 423, 429, 473,
 479
 <223> n = A,T,C or G

<400> 472
 gccaggcgtc cctctgtctg ccactcagt ggcaacaccc gggagctggt ttgtcctttg 60
 tggagcctca ncagttccct ctttcanaac tcaactgcaa gagccctgaa caggagccac 120
 catgcagtgc ttcagcttca ttaagaccat gatgatcctc ttcaatttgc tcatctttct 180
 gngtggcgca gccctgttgg cagcgggcat ctgggtgnca atcgatgggg catcctttct 240
 gaagatcttc gggccactgt cgtccactgc catgcagttt gtcaacgngg gctacttcct 300
 catcgagcc ggcgttgtgg tntttgctct tggtttcctg ggctgctatg gtgctaanac 360
 tgagagcaag tgtgccctcg tgacgntctt ctccatcctc ctccctntct tcattgctga 420
 ggntgcagnt gctgaggtcc gccttggtgt acaccacaat ggctgagccc ttinctgacn 479

<210> 473
 <211> 69
 <212> DNA
 <213> Homo sapiens

<400> 473
 gagcgatgga gcgtgggtag ggaggggtcca cagtgtccac tcgccgtgtg cgaagggtga 60
 ctcggtagt 69

<210> 474
 <211> 155
 <212> DNA
 <213> Homo sapiens

<400> 474
 gccgccactg ccgggagagc tcgatgggct tctcctgcgc gccgcccggt gtctggcoga 60
 gtccagagag ccgcggcgcc tcgttccgag gagccatcgc cgaagcccga ggccgggtcc 120
 cgggttgggg actgcagggg aaggcagcgg tggcg 155

<210> 475
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 475
 ggcttcgacg ttggccctgt ctgcttccctg taaactccct ccattcccaac ctggctccct 60
 cccaccaaac caactttccc cccaaccggg aaacagacaa gcaacccaaa ctgaaccccc 120

tcaaaagcca aaaaatggga gacaatttca catggacttt ggaaaatatt tttttccttt 180
gcattcatct ctcaaactta gtttttatct ttgaccaacc gaacatgacc aaaaacccaa 240
agtgcattca accttaccaa aaaaaaaaaa aaaggcgcg cg 282

<210> 476
<211> 434
<212> DNA
<213> Homo sapiens

<400> 476
ctccaggaca gcgtccagct tgggtgtcgtt gaagacgaag tggagcggat ggttgtagaa 60
acgagtgatg gtgctgagcg gcgtgcagtc ttccgggatcc acgaaggcca agtccttgag 120
gtagagcatg tccacgatgt tggagcgctc ctccctcgta accgggatgc gcgtgtggcc 180
gctctgcatg atgctggcca ggacgccgaa gtccagcacg gtgctggcgt ccagcatgaa 240
gcagtcttcg aggggcgctga gcacgtcctc cacggtccgg cagcgcagca cgcccttgct 300
gagatcgctg taggggtcgc cgccgccgcg cgccagctcc agcaccgct cccgcagccg 360
cccgggccgc gccgccagct ccagcagctg cccacgggc agcgcgacgg gcagagttag 420
caggacggcc aggc 434

<210> 477
<211> 314
<212> DNA
<213> Homo sapiens

<400> 477
ggcgggcgct agctggctcc gggcagctcg gccttggggg ctccggggcc ccgagacgcg 60
gggcgtatga gtggggcgctg cgctccacgc ggaagtcgga gcctcctccc ctggataggg 120
tgtacgagat ccctggactg gagcccatca cctttgcggg gaagatgcac ttctgtccct 180
ggctggcgcg gccgatcttt ccgccctggg accgcggcta caaggacca aggttctacc 240
gctcgccccc tcttcacgag catccgctgt acaaagacca ggctgctat atctttcacc 300
accgttgccg cctt 314

<210> 478
<211> 317
<212> DNA
<213> Homo sapiens

<400> 478
aacagagtga tcattccagt taagcggggc gaagagaata cagactatgt gaacgcaccc 60
tttattgatg gctaccggca gaaggactcc tatatcgcca gccaggggccc tcttctccac 120
acaattgagg acttctggcg aatgatctgg gagtggaaat cctgctctat cgtgatgcta 180
acagaactgg aggagagagg ccaggagaag tgtgcccagt actggccatc tgatggactg 240
gtgtcctatg gagatattac agtggaactg aagaaggagg aggaatgtga gagctacacc 300
gtccgagacc tcctggt 317

<210> 479
<211> 171
<212> DNA
<213> Homo sapiens

<400> 479
aggtgctttg ctagatgctg tgacagggtat gccaccaaca ctgctcacag cctttctgag 60
gacaccagtg aaagaagcca cagctcttct tggcgatatt atactcactg agtcttaact 120
tttcaccagg ggtgctcacc tctgccccta ttgggagagg tcataaaatg t 171

<400>	483						
acaggcccag	tggcgccctag	ccttcagctg	ctgggctctc	ccgagccctgc	cttagcccat	60	
acaaccactt	gatcacgcgg	gcattgcgct	ccaccaccga	cagcccatag	ggaacgcgct	120	
cccgggcccg	ctcctcaaca	gtcaccgagc	tgcggcgggg	gcagccccct	tcagagctgc	180	
ccggcccagc	actgggccct	gccagggaca	cnatatccga	gctggcccgt	gcc	233	

<210> 484
 <211> 194
 <212> DNA
 <213> Homo sapiens

<400> 484
 agagcccttg ctggggggtg cctgggagat ggggtaagaa gagctttcat ttgtctggta 60
 gatagatagc atgtaagggg gtggttggtc caggaggcag ctgctgacag gtttgctaca 120
 cacagccccg gactgtgttg cctgggtgct cattcagaga ggggctatca tctgggagcc 180
 tgtgccctg ggtc 194

<210> 485
 <211> 67
 <212> DNA
 <213> Homo sapiens

<400> 485
 tccatatcca ggtagttctc caggggctgt tcacttacca ggggtgggagc ctcccactgg 60
 ggggaagt 67

<210> 486
 <211> 70
 <212> DNA
 <213> Homo sapiens

<400> 486
 taccgagtca accttcgcac acggcgagtg gacactgtgg accctcccta cccacgctcc 60
 atcgctcagt 70

<210> 487
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 487
 actcccgatt gaagccccca ttcgtataat aattacatca caagacgtct tgcactcatg 60
 agctgtcccc acattaggct taaaaacaga tgcaattccc ggacgtctaa accaaaccac 120
 ttccaccgct acacgaccgg ggggtatacta cgggtcaatgc tctgaaatct gtggagcaaa 180
 ccacagtttc atgcccctcg tcctagaatt aattccccta aaaatctttg aaataggggc 240
 cgtatttacc ctatagt 257

<210> 488
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 488
 actctgctat ggtgctggct tcctttaaac tcaggataga tgccagggtg gctccgtttc 60
 cgtaagactg acactcgagc tcggcatcag accagttcct cagcttcctg aagtaaccat 120
 agcaattgga cttgtggtaa aaccatccag gagcacagct gggctctcatg atgatcacac 180
 ccaggactcc tgttttggcc aggcagctca gcaataggag cagccgcatg cttctggaag 240
 ccactcttct cctaccctga ggatgtagct agtgcaagga tctcagagac cttactagcg 300
 cttctttgaa actcctgggt tctccttgat ctgcaaactc gtytggcaac caagactcta 360

agggcccctg ccttcttc

378

<210> 489

<211> 429

<212> DNA

<213> Homo sapiens

<400> 489

ccgaggtaca cagaagtttg aatcacaaaa cataattacc acaataaaac acagtgttca 60
 agtatcttgg cagagcaatc tgccgcacaa actgcaaatt aaattaacta cacagactaa 120
 aaactatata gcctaccatc aacagttgtg cattataaaa aggtagtttc ttcccttttg 180
 ttttaagtca ggaacaggta gattttttaa aatatatata caagctaaca cacacrgcta 240
 tcagcactaa tgccccccc tcaacttttc ctttttctta tagaaaatgg aaagcttaca 300
 atacctcstc srtymwrgmr scagrcctwc gagccwgcct grasagggtk wgcmtgggar 360
 magmtstgkc ctgaggttta gagccgcttt gtgcggggat ggtggagggt aggggtggggg 420
 tgagaaaag 429

<210> 490

<211> 532

<212> DNA

<213> Homo sapiens

<400> 490

ttggattgcc acacggctca cattgcatgc aagtttgctg agctgaagga aaagattgat 60
 cgccgttctg gtaaaaagct ggaagatggc cctaaattct tgaagtctgg tgatgctgcc 120
 attgttgata tggttcctgg caagcccatg tgtgttgaga gcttctcaga ctatccacct 180
 ttgggtcgct ttgmgktgtg atatgagaca gacagytgcg gtgggtgtca tcaaagcagt 240
 ggacaagaag gctgctggag ccggcaaggt caccaagtct gccagaaaag ctcagaaggc 300
 taaatgaata ttatccctaa tacctgccac cccactctta atcagtgggtg gaagaacggg 360
 ctcagaactg tttgtttcaa ttggccattt aagtttagta gtaaaagact ggттаатgat 420
 aacaatgcat cgtaaaacct tcagaaggaa aggagaatgt tttgtggacc acttttggtt 480
 tcttttttgc gtgtggcagt ttttaagttat tagtttttaa aatcagtacc tc 532

<210> 491

<211> 567

<212> DNA

<213> Homo sapiens

<400> 491

tcgaggtaca aaagcccttc aaaaggagtt cagcttttat aaacaccaa acactctctg 60
 cctgtaaaat gtttttgctg aaatttgtat cattaactct caaatttaca tcttcatggt 120
 tgagatacgc ttttaggact gtctatgcat gtagactttg gtcaactctc tctcctccc 180
 tcaataaatc agttaactta aaaaatatat tgtgaccatt tttataaaat acatgttcat 240
 aaaacagatc aacatattta gcttatacag aaataaaatt aagtcaatcc actcaciaag 300
 aatttctatt ttgtaaaaat gtagcttgta tttcagtata ataaaatctg atgcaaaaaa 360
 cctgcccggg cggcaagtgt gctggaattc tgcaakatat catcacactg gcggscgctc 420
 gagcatgcat ctagagggcc caattsgccc tatagcggcg cattaagcgc ggcgggkggtg 480
 gtggwtacgc gcasygtgac cgmtacactt gccarcgccc tagmgcmcgc tcctttcgcw 540
 ttcttccctt cctytctcgc cacgttc 567

<210> 492

<211> 422

<212> DNA

<213> Homo sapiens

1005530.12901

```

<400> 492
agtgtgctgg aattcgccct tggccgcccg ggcagggtaca agactcaata atcacctgac 60
tgagctccaa ttaactgagg agaaacgggg tggaggagag ggctgggtgc tattcagact 120
tgataatgag attgatctgt cccatggaga gtgaaagtgc agttccactt ctgcctcctt 180
ctttccatgc tgtcctcatg ctctttatcc tcacttcctc agtcccttca aactcaaaa 240
tctgatttta tttctctctc acacgtatca ggggcagttt ctgaagttgc tgaggttgaa 300
ttttcttcac aaacctctat aaaacatcag cagagaacat ataaat-acat tttgattagc 360
atacattgca aaatttctcc cacaatgtca ggggatgaaa gcagggtggc cccactgaga 420
gt 422

```

```

<210> 493
<211> 318
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 283, 311
<223> n = A,T,C or G

```

```

<400> 493
agtgtgctgg aattcgccct tagcggccgc cctggcagggt aagctttttt tttttttttt 60
tttttttgat gattaacatc ttttaattcaa atgkaaaagt tcaatacaag ccatttatag 120
ggcttgagat ttgttggtct tttaaaaaca araaatgggg aaatgcaaca aaatgacctt 180
tccacttttc aaaagctttc aagtaaagga tagatcatag ggccataaaa gatccattta 240
atsaaacca cttttyaccc cctaccaatt gtcttacacc cantccacaa tcttaatata 300
tattcctgaa natttaca 318

```

```

<210> 494
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 494
accttttact acaacaagta aacatgcata ataaagtagg attcatccaa tgtctgacct 60
ttctttgcat caaaagaaca tttccggcca ggcacggtgg ctacgcctg taatcccagc 120
actttgggag gccgagccag gtggatcacg aggtcaggag atcgagacca gcctggctaa 180
catggtgaaa ccctgtctct actaaaaata caaaaatgag ccgggcatgg tgggggggca 240
ccgtagtccc agctacttga gaggctgaga caggagaatg gcgtgaaccc ggggggcgga 300
gcttgtagtg agccgagatc gcgccactgc actccagcct ggggtgacaga gtgagactcc 360

```

```

<210> 495
<211> 329
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 269
<223> n = A,T,C or G

```

```

<400> 495

```

```

gaggtctggg atggggcttc actgctgtga cttcctcctg ccaggggatt tggggctttc 60
ttgaaagaca gtccaagccc tggataatgc tttactttct gtgttgaagc actgttggtt 120
gtttgggttag tgactgatgt aaaacgggtt tcttgtgggg aggttacaga ggctgacttc 180
agagtggact tgtgtttttt ctttttaaaag aggcaagggt gggctgggtgc tcacagctgt 240
aatcccagca ctttgagggt ggctgggant tcaagaccag cctggccaac atgtcagaac 300
tactaaaaat aaagaaatca gccatgaaa 329

```

```

<210> 496
<211> 292
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 166
<223> n = A,T,C or G

```

```

<400> 496
acctgggatg aggtgggtgg agctttgaat ctaccactat ccaggccaca cacctagaag 60
ctctggtttc attgtttcat tgatttcatt gttttgattg atgctgacct taggcagcag 120
agttttcaat gctctccagg tgtttctaaa gtgcagacaa gtttangacc gtgcttgagg 180
gtgaagggca ggactgtgat ggggaggggc aaatatgggg cccttggggg gcaggcaatg 240
gttttccttg acctgaatgg ggggtctcaca ggtgttgcat atacatatac gt 292

```

```

<210> 497
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<400> 497
tcgaggtacc gaccatagag caagaatcaa gattctgcta actcctgcac agccccgtcc 60
tcttcctttc tgctagcctg gctaaatctg ctcatatttt cagaggggaa gcctagcaaa 120
ctaagagtga taagggccct actacactgg ctttttttagg cttagagaca gaaacttttag 180
cattggccca gtagtggctt ctactctcct gtctctggct gtctcgagca gtctagaaga gtgcatctcc 240
tgcttcttcc ctctccctgt gtctctggct gtctcgagca gtctagaaga gtgcatctcc 300
agcctatgaa acagctgggt ctttggccat aagaagttaa gatttgaaga cagaagggaag 360
aaactcagga gtaagcttct agcccccttc agcttctaca cccttcgggc ctctctccat 420
tgctgcacc ccaccccagc cactcaactc ctgcttggtt ttcccttggc catgggaagg 480
tttaccagta gaatccttgc taggttgatg tgggccatac attcctttta taaaccattg 540
tgtacctgc 549

```

```

<210> 498
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<400> 498
cttgaagctg ggaggtggag gttgcagtga gccgagatca caccactgta ctccagcctg 60
ggcaagagaa tgaaactctg tctcaaaaac aaaaataaaa acaaaaaaaa aactcttgct 120
attctggaaa tgtccacaat tcagtcttca cctgcctcca tctcatgaa ggcaccaggg 180
gagcgcggtg ggctcacctg atttcttggt taggtctggt ctgttccttt tttatgcggg 240
gtctgtcggg gggcactgct ccaatgtgag ggggccaggc tccatcgtag cctcttaacc 300
agctcagtg caggaagggt ggactttgac aaaaaccac ctcaaactct cactcccca 360
cctggagtg aacctgtggc aagctcccta ggctctctgg gcctcagctt cc 412

```

<210> 499
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 499
 actttttaaga atatacttttg attttaatatg tatggttagta aaactccacg tgttgtaacc 60
 attattatgt ttttgttttt aaaatgggga tgtaatacta ataaccacta cctataaaat 120
 aaagcacaca attgttccgg cgatttttaca aatctttttt tccaggtgta aagtctacaa 180
 aaattccaaa aaattagaga acactgaaaa catattaaag ttgacatcc aactttatag 240
 tattttccatg ttaccctgaa agataactta aaaaatatgg ccttcttaga acaggccact 300
 ctgctattat aaaaaattgg tgacagcaag aaattgtatc actgatattg ggaatttttg 360
 taaatagttt tctctccaaa tcattagaaa aatgttcaaa aataaaaaa aaataaaaata 420
 tgggtggtggt ccctaaacta ttttgaa 447

<210> 500
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 500
 gtttgcttct tgcattctgat taactagaat atttctcttt ccccttttta atttgtgatg 60
 tcaattgacc ccatttatgt gtaggagcac tacaccattg gtttccaata ctgcacacat 120
 aagatacata cttgtgtgca gaaagtatct tcttccaggc ttgtaatacc cttcacatgg 180
 aagattaatg agggaaatct ttatattctg tataaaaaa aaagcaaatt tatatactaa 240
 aatcatttgt ctaaaaatct aagttgtttt caaataaaaa ttaaaatgca tttctgatat 300
 gcactgattg tgttgccctcc agcttttttt gctctctatg agtgactact taagtcaactt 360
 gttgagaggg attatttact aattatatac ttctcattcc tgtaactcca ttccctttta 420
 acagtgggtga tatcaaatat acttccatcc attgaatggg gtatttttta caacaacaaa 480
 agtgatatac taaaaaatgt attgcttaag gcttattgaa tcatttt 527

<210> 501
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 501
 gaggttgccg accaaagaga ccattgagca ggagaagcgg agtgaaattt cctaagatcc 60
 tggaggattt cctacccccg tctctcttga gacccagtc gtgatgtgga ggaagagcca 120
 cctgcaagat ggacacgagc cacaagctgc actgtgaacc tgggcaactcc gcgccgatgc 180
 caccggcctg tgggtctctg aagggaaccc cccccaatcg gactgccaaa ttctccggtt 240
 tgccccggga tattatagaa aattatttgt atgaataatg aaaataaaac acacctcgtg 300
 gcaa 304

<210> 502
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 502
 actgattgtc atcctgactt tggcattggc agctcttata ttccgacgaa tatatctggc 60
 aaacgaatac atatttgact ttgagttata atatggtttt gtgacttatg agctgtgact 120
 caactgcttc attaaacatt ctgcattggg tataatctaa gaattgttta caaaaagatt 180

```

at tt t g t a t t   t a c c c t t c a t   t c c t t t t t t t   g a t c c t t g t a   a g t t t a g t a t   a a a t a t a t c t   240
a g a c a t t c a g   a c t g t g t c t a   g c a g t t a c g t   c c t g c t t a a a   g g g a c t a g a a   g t c a a a g t t c   300
c t t g t c t c a c   t a t t t g a t c t   g c t t t g c a g g   g a a a t a a c t t   g t t t t t t c t c   a t g t t t c a t c   360
t t c t t t t t a t   g t a a a t t t g t   a a t a c t t t c c   t a t a t t g c c c   t t t g a a a t t t   t t g g a t a a a a   420
g a t g a                                                    425

```

```

<210> 503
<211> 256
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 224
<223> n = A,T,C or G

```

```

<400> 503
a c c a g c a g t g   t g t c a g g t g c   t g c a g a g c g t   t c t t g g a g a a   g g c c c a c t g a   g g c a g g t t c g   60
t g c c c t g c t g   c g g c c a g c c t   g a c t a g a c c c   c a c c c t g a g g   t c c t g c a t t t   c t c a g t c g g t   120
g t g t a a t c a c   g t t c c a g g g c   c c a a a g c c c a   g c t c t t t g t t   c a g t t g a c t t   a c t g t t t c t t   180
a c c t t a a a a a   g t a a t t g t a g   a t g g a a a t c a   g t t g t g t t t g   g c a n g a g a a t   c a a t a a a a a t   240
c t t t g a t t c a   g a c a g c                                                    256

```

```

<210> 504
<211> 255
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 166
<223> n = A,T,C or G

```

```

<400> 504
a c t g t t a a t g   a t g t t a a t g a   t t t t t t t t t a   a a c t c a t a t a   t t g g g a t t t t   c a c c a a a a t a   60
a t g c t t t t t g a   a a a a a a g a a a   a a a a a a c g g a   t a t a t t g a g a   a t c a a a g t a g   a a g t t t t a g g   120
a a t g c a a a a t   a a g t c a t c t t   g c a t a c a g g g   a g t g g t t a a g   t a a g g n t t c a   t c a c c c a t t t   180
a g c a c t g c t t   t t c t g a a g a c   t t c a g t t t t g   y t a a g g a g a t   t t a g g t t k t a   c t g c t t t g a c   240
t g g t g g g c c t   c t a s a                                                    255

```

```

<210> 505
<211> 485
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 70, 180
<223> n = A,T,C or G

```

```

<400> 505
a g c t t g g t c c   g a g c t c k g a t   c c c c t a g w a a   c g c c g c c a g t   g t g c t g g a g a   a t t c c c c c t t   60
a g c g t g g t c n   t t g c c c g a g g   t a c a g a a a a c   c c a a a g g c a a   c c a c a t a g c a   t a t g t a a a a t   120
g t g c a a a t c a   c t t t a a a a t g   c a a g t t a t t c   t a t a g c a t t t   g c a a g a t a g a   a t t t c a c t g n   180

```

aattagggaa tctagttcat cctaacttaa tagtcttttg catgtataga caatgcaatt 240
 ctacaaggca caactcagcg ttgatgctaa agtatgaaac acatcctcag attatatttatt 300
 tgaaaatatt aaaatagcat cgtttattat tttttaatga gtcatgagct catttctaaa 360
 gcttcataaa gcattacact gataacatat gtgtgggtcag gacaaactgt tccctgaact 420
 taagaggtga aggacaagac cccatattat tatcctgtat taaaaaagga aatatacata 480
 tatgt 485

<210> 506
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 506
 acaactccaa aaggagacat tggagaagaa ccaagctggg tctataagga attgcacatg 60
 agatggcaca catatattatg ctgtctgaag gtcacgatca tgttaccata tcaagctgaa 120
 aatgtcacca ctatctggag atttcgacgt gttttcctct ctgaatctgt tatgaacacg 180
 ttggttggct ggattcagta ataaatatgt aaggcctttc tttttaaaaa 230

<210> 507
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 507
 acctacttct ccacaccgct gttgcttggg aaaaagggca tgcagaagaa cctgggcatc 60
 ggcaactct cctcttttga ggagaagatg atctcggatg ccacccccga gctgaaggcc 120
 tccatcaaga agggggamta tccsgtgaac accctgaaaa gacccgctgt gacgggtg 179

<210> 508
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 508
 acagagtttt atataaattt aaaccaattt ttaaaacaaa actgcggaca ccaccataaa 60
 aatggaatca aaagaaagt aatttatgaa attaagaggt cagcagaata tactcagtga 120
 tggaagacac ttgggaaagt ctttttaata gaacaagaac gatcttaatt taagaatatt 180
 atcctggttt aacaacagt cctgttttac aacagattgt gccctatctc atctgcagcc 240
 gaggaataaa ggattctgat tagaaagagg gttgcctaca gattagtaag caattccttg 300
 gatcttatgc acagaacttg t 321

<210> 509
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 509
 acgtgggata cgggtcatgg gcagagctcc tggcctcagt gatgcctcct gatctatcca 60
 taggcctgga agatcagcac tgggatgacg atgagcagaa tggatcatgag gatgcccasa 120
 atcagggccc acatgttcag gcacttggcc ggtggatgca targcctggg cccctg 176

<210> 510
 <211> 298
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 246

<223> n = A,T,C or G

<400> 510

```

accaaacttta tatcatatgt ttatacaatt taatttaaaa attcatttta aggaagacag 60
ataatttgaa agacttttgt ttttcttgac ttaattcatg aagtatcatt ttttgactga 120
gtctccattt acttcattct taatgattat tgtcatccct ttaaactctgt gcctttttct 180
tcttgagcga agctgtttga gtaaacctgt tgaagagtgt ttgtgtcttt tgtgcttttt 240
tgttgntatt aaaacaccaa ctaaacctta tagtcaagac aaggctctat gtttctgt 298

```

<210> 511

<211> 345

<212> DNA

<213> Homo sapiens

<400> 511

```

acagattttt gtatagctga taagattctc tgtagagaaa atacttttaa aaaatgcagg 60
ttgtagcttt ttgatgggct actcatacag ttagatttta cagcttctga tgttgaatgt 120
tcctaaatat ttaatggttt ttttaatttc ttgtgtatgg tagcacagca aacttgtagg 180
aattagtatc aatagtaaat tttgggtttt ttaggatgtt gcatttcgtt tttttaaaaa 240
aaattttgta ataaaattat gtatattatt tctattgtct ttgtcttaat atgctaagtt 300
aattttcact ttaaaaaagc catttgaaga cctaaaaaaa aaaaa 345

```

<210> 512

<211> 459

<212> DNA

<213> Homo sapiens

<400> 512

```

acttatttca acaattctta gagatgctag ctagtgttga agctaaaaat agctttattt 60
atgctgaatt gtgatttttt tatgccaaaa ttttttagt tctaatcatt gatgatagct 120
tggaataaaa taattatgcc atggcatttg acagttcatt attcctataa gaattaaatt 180
gagtttagag agaatggtgg tgttgagctg attattaaca gttactgaaa tcaaatattt 240
atttgttaca ttattccatt tgtatttttag gtttcctttt acattctttt tatatgcatt 300
ctgacattac atatttttta agactatgga aataatttaa agatttaagc tctggtggat 360
gattatctgc taagtaagtc tgaaaatgta atattttgat aatactgtaa tatacctgtc 420
acacaaatgc ttttctaatt ttttaacctt gagtattgc 459

```

<210> 513

<211> 422

<212> DNA

<213> Homo sapiens

<400> 513

```

gccccgtagt gatgagcact gactggttca ctggccacat tttagttctt cataataata 60
ggccacaaaa gggctctgtg gtttgccctc atgtgcactg gcccctcccc acccctaggg 120
ggcactcagt agctgctgag aaggcctgtc cacgaggctg ttggaacccc tccaataaat 180
acttagaggt agtgtatctg atgcttggtt tctgtggaga aattgtattg gagaacttaa 240
aacatcacga atatttttaa taggatccgc agacacccaa aggagaagct tgggtctttt 300
caggatattt caacttgagt tcagcccaaa gcctttgaaa ggaatgcatt accacatgac 360

```

T06T3T"02C200T

cacatgctga gaccccatgg ggtctaacac gggacctaag aaagtctctg cagccagata 420
gt 422

<210> 514
<211> 326
<212> DNA
<213> Homo sapiens

<400> 514
accagtatag taatatctgt atactaacta gggctttgta ttgtcaataa ttttttaata 60
atTTTTtaat gaggtattta cactgaaga aatatgataa tataaaacca tcaaatttta 120
taattgagat gatactctgg aaaaacatgt catttcattt tcagaaaact ctttaagctct 180
cttcagtctc tgtaatgttt ctgattgcat gtttcttcat gaaaagtatg ttgttggttt 240
gatagtaata ataataaatg taggctcagt tctttccag gattttcatc aaaaagcttt 300
aagtgcctaa ccctgcttgt ctctgt 326

<210> 515
<211> 323
<212> DNA
<213> Homo sapiens

<400> 515
accagatgta gctaggaaaa cccaaacggt ccttggatcc tgagacagct ggtaagcacc 60
caggccggct agactgccaa agagcagccc tgcagccagg gacggcacgc tgcctgcttt 120
tacatagcca atgatccac cagaagcaac cagtgtgcg tagccaaagc caaaccaatg 180
caagggcact actgagccag tgtcctgcat ttttctcttc tctgtccaga caggagacta 240
ccccaggcct gcaccggtct cacgaaggcc ccggtgtctt acaagggcgc gcaagccgca 300
ggaatgactg cgaggtgtcg ccg 323

<210> 516
<211> 403
<212> DNA
<213> Homo sapiens

<400> 516
accccgttgg ggttcatttc ctgcccaaga agctggatga ggcagtggct gaagcccacc 60
tgggcaagct gaatgtgaag ttgaccaagc taactgagaa gcaagcccag tacttctaaa 120
tactgagtga atacatcaca gattgcataa agtgcattgt tgcaagttgt tgtcatccat 180
tcagctttct ctgtctgttg ttctggcaat ttcattattgt caaagattct gaaaacaatt 240
ctaaataaat cctgccacca gtgtttctca taagtgtggc catatgtttt cattatttca 300
aacattactg ttaaaccctt ggttcttaca tctaatttgc atctattgat gatacaggat 360
aactcaaaga gaattgggaa ccattctctc acccacacc tgt 403

<210> 517
<211> 360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 335
<223> n = A,T,C or G

<400> 517

```

acctgaacga agtcgcgggc aagcatggcg tgggccgtat tgacatcgtg gagaaccgct 60
tcattggaat gaagtcccga ggtatctacg agaccccagc aggcaaccatc ctttaccatg 120
ctcatttaga catcgaggcc ttcacatggg accgggaagt gcacaaaatc maacaaggcc 180
tgggcttgaa atttgctgag ctggtgtata ccggcttctg gcacagccct gagtgtgaat 240
ttgtccgcca ctacatcgcc aagtcggagg agcgagtggg agggaaagtg catgtgtccg 300
tcctcagggg ccaggtgtac ctgmccgggc ggccnctaac ggccaattmt gcagatatcc 360

```

```

<210> 518
<211> 255
<212> DNA
<213> Homo sapiens

```

```

<400> 518
cataaatatt atactagcat ttaccatctc acttctagga atactagtat atcgcgcaca 60
cctcatatcc tccctactat gcctagaagg aataatacta tcgctgttca ttatagctac 120
tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
ctttgccggc tgcgaagcag cggtgggcct agccctacta gtctcaatct ccaacacata 240
tggcctagac tacgt 255

```

```

<210> 519
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 519
accttcctct caattttgct gtgaacctga aatggcttta aattaatact cttatTTTTT 60
atttaattta attacataaa ttaaacctta ccatgaccaa attgtgttag gacggcctgc 120
tatctacagc acagtgtgtc atttgcagat ttgtgggttac ctataccacg ctaggtgttt 180
tgacatgttt agtatttctg ctttacagtg ctgaattcca tattttagaa gctatgaaag 240
tccttttatg aaaaagttac tgattgcttc tcagttatta ggaaaacagt tgtttcacaa 300
ttattatgta gatatgatgc ccaaatatca tttttagtat atcttgtcga tctttaagtt 360
gttactattg tgttattcat gtctttaaat cagataccaa atatttttta ggaaagaaaa 420
atgttattac tgtcattagg ttggctttt 449

```

```

<210> 520
<211> 92
<212> DNA
<213> Homo sapiens

```

```

<400> 520
acccccatca cagcagtcaa acagcctgag aaagtggcag ctaccaggca ggagatcttc 60
caggagcagt yggcaryagg gccagagatc cg 92

```

```

<210> 521
<211> 123
<212> DNA
<213> Homo sapiens

```

```

<400> 521
acagagggga caacaatgaa tcagaacaga tgctgagcca taggtctaaa taggatcctg 60
gaggctgcct gctgtgctgg gaggtatagg ggtcctgggg gcaggccagg gcagttgaca 120
ggt 123

```

<210> 522
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 277, 284
 <223> n = A,T,C or G

<400> 522
 acaaaaaaat gaatgttaca aaaatcacgt aaaaaaaact aggctcaagg aagcagccgc 60
 ccttgcaaga gggctcaagg cacctgagag gctgagaaga ggccaacctg gccatgggcg 120
 tggctgcatg gacagctctt cctcctgcc cttccccaga tgccttccc tctgccccg 180
 aggggcacac tccctctccc caattacagg tgctacaaa ctgccttgaa taccaccgcc 240
 aaggcactgc cagagatgaa atgggccctg agcagangcc tcangctctc cctcccccg 300
 agc 303

<210> 523
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 523
 acagtgcatt gtgctgtcac ttggaaagcc tttcaatggt gtcttcagat tgttgtgatg 60
 aatatgaaac atgcagaccc tcctttataa agaaaaagac cttaaaactt gaatatgaga 120
 taattttaca ttttaaaagt ttatttgatt ttcattatatt tcactttcaa agccctttca 180
 aatagaaaag gtatgaactt ttggggggat aatttatgta tcgtaaactt attagaacaa 240
 aatattcctg atgtataatg agttgtttta tttatacaac tttttcaatg gtagtttgca 300
 ctattcttta ttatgttaca ggtttattta ttatgaaaca aaggaatatg tattttatgt 360
 attttaccat gcataggtta actctttgcc acagatttat tggctttgat acacctaaaa 420
 taaa 424

<210> 524
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 524
 acaatttcat tgcagacaca aagacttaag agtttcaaag aattttttta aataaaaaaa 60
 aaatttgcac ttattcctca caaatcttc acttttgga ctatcccaat tgaagctaca 120
 cactgaattt attaatacag cattaagttt ctttgtgtaa aaaaatcttt gt 172

<210> 525
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 525
 actccttccc agttttttct ttatactgag ccttcagga cagtaagcat tctacagctt 60
 cttttatttt agccttaggg gatttttcag cttttagctt acgaaccacc tccccttggtg 120
 cagcaacttc atcatacaga gatttacttt ccagaatact tgctgaggaa ttagaagaaa 180
 tattctgtcc tatttcagca ggagggtttc cagggtttata ttctggcca gttttctcct 240
 tatattcaag ctttca 256

<210> 526
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 526
 actggagatg tatttgataa ccaagggttt aggttaaattt tcaccagtat tagttctatt 60
 tgcaaaactga aaaatgttgt aggcctaata taaaataaacc acattagtga acattatatac 120
 tcttagaaga aaggccatat tttgctcctg cttctgtaaa aatattattt gtttgaagg 180
 gaaataatgg tagtgtgacc ttctacttaa ttctactcc cttaatgtga gagagacaaa 240
 atgagctgaa gaaggaaaat tctggagtta cactccacaa ccttgaacat actgacggac 300
 atctctgttt tgacaacgat ttctccatgc caccatgct ctaatgcctt gtggatcacg 360
 gacaaccctc tttgcacaag ctacagcatc agcgatgtta tcttgcagca aagcactgca 420
 ggataaatga caggcattaa ctgctcctgg ggttttgcc a tcattacacc agtagcggc 479

<210> 527
 <211> 220
 <212> DNA
 <213> Homo sapiens

<400> 527
 accaaattga agggttttaga ggccctcaaa tgggcatcac tcataaaggc aattttcatg 60
 gtttaatatata gaaattactc taatgtgaga acacaacatg ggaactattc aaaatacacc 120
 tttctatgca aaattgagtt tgyatctatt ttagcatttt aaatgagcac tctgcaactg 180
 agaccaaata tcaatcatct cttgagggtt tctactatgt 220

<210> 528
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 528
 acamcatcga tgaaattcag acatacaatg taaagttgaa ataatcccaa attattttac 60
 attatttatg tatactttac aaataacaca aatatggaaa tgttttcttg gaaagctgtt 120
 ggaactgtaa gcaactgcaac gtatgaaaga aacatattta gcaataaaaa atttaataat 180
 atcctacaac tgaattagtt gcataattat accattcaaa atcttgattt taacctcatt 240
 cactcctttg aaaaatacat tcctcttttg ttcttttaaa tgcaaaatta gtggcagttg 300
 cagcaaaaac gccgaaattc tataagaaaa aaactgattt accccaaaca tatcattcag 360
 cacaaactgc ggt 373

<210> 529
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 529
 acattttctaa gtcaaact tgtgactttt gctttaattc catgaatgtt cctgcctcct 60
 tgatatttgt atttattcct tttttctcta gagtagagg ataatttgtgt gatatttcag 120
 aatatcacat aatgattca aaaagtcaca gttaggaga atcatgtttc tttgatcatg 180
 aataactgat tagtaagtct tgcctatatt ttctgatag catatgacaa atgtttctaa 240
 ggtaacaaga tgagaacaga taaagattgt gtgggtgttt ggatttggag agaaatattt 300
 taatttttaa atgcagttac aaattataat gtattcatat ttgt 344

<210> 530
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 530
 accattgctc tttcctagct aaccctagat atggcagctc tttaatgtac ctgagatcct 60
 ggtgcacaac atagtgatct tcatgcgaac ttcagtgaag atttcataca ttggcctcat 120
 gacccagagc tccttggaga cacatcacta tgtggattgt ggaggaaatt ccacagctat 180
 ttaacaactg ctattgggtc ttccacacag cgcctgtaga agagagcaca gcatatgttc 240
 ccaaggcctg agttctggac ctacccccac gtggtgtaag cagaggagga attgggtcac 300
 ttaactccca gcaaacatcc tcctgcccact taggaggaaa cacctcccta tggt 354

<210> 531
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 531
 acacatccca tcttcaaatt taaaatcata ttgtcagttg tccaaagcag cttgaattta 60
 aagtttgtgc tataaaattg tgcaaatatg ttaaggattg agaccaccca atgcactact 120
 gtaatatattc gcttcctaaa tttcttccac ctacagataa tagacaacaa gtctgagaaa 180
 ctaaggctaa ccaaacttag atataaatcc taccaataaa atttttcagt ttttaagtttt 240
 acagtttgat ttaaaaacaa aacagaaaca aatttcacaa taaatcacat cttctcttaa 300
 aacttggaac acccttcctt aactgtccaa gtatgagcat aactgccac tggctttaga 360
 tactccaatt aaatgcacta ctctttcact ggtctgaatg aagtatggtg aaacaagt 418

<210> 532
 <211> 583
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 497, 498
 <223> n = A,T,C or G

<400> 532
 cgtcccaaca attatattac taccactgac atgaccttcc aaaaaacaca taatttgaat 60
 caacacaacc acccacagcc taattattag catcatccct ctactatttt ttaaccaaatt 120
 caacaacaac ctatttagct gttccccaac cttttctctc gacccctaa caacccccct 180
 cctaatacta actacctgac tctacccct cacaatcatg gcaagccaac gccacttatc 240
 cagtgaacca ctatcacgaa aaaaactcta cctctctata ctaatctccc tacaaatctc 300
 cttaattata acattcacag ccacagaact aatcatattt tatatcttct tcgaaaccac 360
 acttatcccc accttggcta tcatcacccg atgaggcaac cagccagaac gcctgaacgc 420
 aggcacatac ttctatttct acaccctagt aggctccctt cccctaccca tcgcgactga 480
 tttcactcac aacaccnnta ggctcactaa acattctact actcactctc actgcccaag 540
 aactatcaaa cttcctggcc aacaacttat atgactagct tac 583

<210> 533
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 533
 gaggtactta ataaccaagt ctcggaacac tgagccatca cctgcaatgt ttcctagagc 60
 ccagacagct tgttactga tgtgagcatg gggagatgcc aacagagaaa tgaatgctgg 120
 gatggcacct ccatctacca cagccttggg ttgttctgat gtcccagaag caatgttagt 180
 gagtgcccaa gcagattcaa actgaatggg actacaatca gttctgcca agaaggacac 240
 aaatttcgga atcaaaccag ccgggattat gttgtctatg gggggctgtt tttctctgga 300
 aagtagtttc ctggcagctt gagtagcttg gagctgattt tccacattgc tgctatttat 360
 gcctttgaca atgtcatcaa cagaccaatt tacagtgcc tggttggtgc ggttttcctg 420
 cagcggagaa gtagcatcat caggaaatga gcttacattt ctctcttca gcatctgggc 480
 atccttctta gctttcctca gctccacatt gacctctatt ctgcgacgc 529

<210> 534
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 534
 actcattaat attattttgt tttgagaaag ccagaaatga ttctaagaaa taaacaataa 60
 taataaaaga tgtaattaat atactgtatc ccttttaagc caaagcacac tttttacctc 120
 aagactgttc tgacttttac attcttaatt tcctttgtcc aaaataggac cccattttta 180
 atagagttca tttgaattga gttcataatc taaagtcact tttccccaca agatgttttc 240
 atttcagtat ataaactgct aagcggcaaa tgactaagtc agttataaag aatttgt 297

<210> 535
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 535
 actttccagg gcacagcctg gacgaatgat gccaaacttt ccgggcacag acaaatcaac 60
 cacagttgag ccaaggcgac actcggggct ctggccatcc ccaatttgtc ccccatcaat 120
 aaccaaggac aactgaggcc agagatcctg gaactcctcg acattcagag aactggcctg 180
 ggagctgagg ttggcactag tgagagcaag cggaccctca aacatctgag ccaagtcttg 240
 cataaaagca tgatcaggaa tccgaatgcc tacaagaggc gtaaaagggg ttaggtcctt 300
 gttgagctcc tccgagcgtt ccatcaccag ggtcactggg cctggcagta ggtctttcag 360
 gagccccctca ggt 373

<210> 536
 <211> 254
 <212> DNA
 <213> Homo sapiens

<400> 536
 acatgctcca ttaaattaaa tgtcatccaa catttatcaa atattgtctt agttacagct 60
 tgatacctat ctaaatcat attcgagcaa aactaggccc cgaaagtgcg tttgtggctc 120
 tgcacctcca gaagtgagtt caaaaaacct gcagctcatc agaactgcaa caataactct 180
 taatattttc ttgtgacaaa aaaaaaaatc aagtttactt caatatattt tcaaatattt 240
 actggaagta atgt 254

<210> 537
 <211> 449
 <212> DNA
 <213> Homo sapiens

```
<210> 538
<211> 328
<212> DNA
<213> Homo sapiens
```

```
<210> 539
<211> 506
<212> DNA
<213> Homo sapiens
```

```
<210> 540
<211> 519
<212> DNA
<213> Homo sapiens
```

Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the vector x for a specific value of n . The x-axis for all histograms is labeled 'x' and ranges from 0 to 120. The y-axis is labeled 'count' and ranges from 0 to 100. The histograms are for $n = 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120$. As n increases, the distribution of x becomes more concentrated around zero, with the peak count increasing and the spread decreasing.

<210> 541
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 541
 acttgaggct tttttgtttt aattgagaaa agactttgca attttttttt aggatgagcc 60
 tctcctagac ttgacctaga atattacata ttcctccagt aagtaatact gaagagcaaa 120
 agagaggcag gattgggggtc acagccgctt cttcagcatg gaccaagtgg gccttgggga 180
 ttgcagcggt ctggaagtgg ctgtaggact cgaatttaca gaaagccaca gaggtgcaac 240
 ttgaggctct gctagcaagc caccagtggg gctattgggt aaccaccttt ctatacagga 300
 gattggaatc tactttgtca tttatccacc acagtgcaca aggaaaagtg gtgccgttat 360
 gcaatccatt taactcataa acatattact ctgagtaact ggccagccat tcatcggtatc 420
 cttcattggg t 431

<210> 542
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 542
 acaaaaaagg aaataagaaa gtagtgacag cctatccata caaaaatcaa aaagacacaa 60
 aggaagatag aatgagaaac agacctacaa gaatcattaa acaataaaat aacagtaatc 120
 tttgtcttca gaaaataaat attttaaaaa tagacttgcc aatcaatata catacattga 180
 atagagggat tatataaaat tttatatacc aagatccaac ttgcctctct tcaagagtca 240
 cttgagatct agtagtgaaa tcagcctgaa agtggcaagt ggaagaagac attttaggca 300
 aacatcaacc aaacgagagc agaagagatc aaaattgtat tatacaaaat acatcgtaag 360
 tcaacaactc tcttattttta taaaatatac tttatgtcaa aattcacaag agaaaaaagg 420
 tcattaaaca ataataaaga tatcatttat tgaaaatgta tgacaaatat gtgcatacat 480
 atatttatat gtttgtgtct gt 502

<210> 543
 <211> 452
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 403
 <223> n = A,T,C or G

<400> 543
 actacaaggg cagtaaaaca atgatacact ggaaaaaaaa aaatgcagca ataaacattt 60
 gttaaaaaga ctgatagaat aaataaaact acaaaaaaaaa aaaaatcata caaaccattt 120
 ctgaaacccc aagaagtcct ggaatacaga aatgccctcc tccttcaacta tttcacagga 180
 agcactgcag gctatttgc taaatttgc ctgggattac attctaaaat tagtaactgg 240
 ttacagctcg gttgtagtgc acaattaaaa tcacactaac ttcattctgaa gtgtcattct 300
 acagttttat ttacacaacc agtgaagggc atgttctaga ataccagctt taatcctttt 360
 caaacattaa tataagaagc caaattgtaa tgatacagca aantgaggcc actggtatta 420
 atacaggtag caaaggtcca catccaggtg gt 452

<210> 544
 <211> 472

<213> Homo sapiens

caatcattta	taatagaaac	accttgacca	caagcccttg	attgaacatt	ttataaatatt	60
tcatctactt	attaaaacaa	ataatttccc	ttgggttgga	ggggagggtga	tttcataaat	120
taattagaaa	gccatcttta	gcatattgct	tatgtctgga	tccatgtttc	tgaggaaaaa	180
gacatttctc	ggtgatgtat	ttttttcatg	cattagtatg	cattttttaa	aaataatgca	240
tgtttcttta	ataattaatt	ttcatcttct	ataagatgcc	atgtgaagaa	gttgtgga	300
tgtagaataa	aaagctaaa	ctgccaaatt	tctgttgaac	tcttaaaaac	agctcatgtt	360
tgtttgtcct	ctcgggttgt	ggcctagcct	atttgcaatg	taatgaagct	gcagggttct	420
tgtatagcta	aagcgttcaa	tgcatctcac	gtgctgtggt	ggatgtgggt	gc	472

<213> Homo sapiens

<223> n = A, T, C or G

acttaagcat	ttccactttt	ggaagaaaag	tgtattagta	ttttatattg	catttcattt	60
aaaaggacag	tttttttttt	ttttgtaa	ccatttcattg	aaatggtttc	taaactgtat	120
aatgtaattt	ggagcctatt	tagtaatatg	aattaatatg	cctatgtagt	gctacaattn	180
tygaatttaga	aagtgatcaa	atgtmasaaa	aaaattayaa	aattcagccc	agaaaacaaa	240
atagggtatt	aaattagttt	aatgtaaaaa	gaattwataa	g		281

<213> Homo sapiens

tcgagggtact	gagacagaag	attgtgtcta	cataagcaca	agttgtaaca	tttcacaact	60
tctaaaagga	atgtcaacaa	ttacaacgat	catgcatacc	atggtcgata	atcacatttt	120
agaagcattt	tcaaccattt	ctaaagaaat	gcttataaca	ttgttatata	tagaactact	180
ttcaataaac	tgcaaaacat	tgatcgactt	ttccagtatg	agctacagtg	tcaacacaaa	240
agggaggcat	aaatgtttta	tttatgaaat	cagaatggaa	tattttactgt	aaagaaaaat	300
taaaaagctt	tcaataaaag	gccattatcg	aaccaacgtg	aagagcacia	ctcgaacttt	360
tgagttcatt	catcttttaa	agctgtcctc	tcaataactt	cagttctaag	cactgaattc	420
agt						423

<213> Homo sapiens

gaggtctttt agcagggtctc aaaagttttc ttctaataara ywtcttggtg ttctatcatt 60
cgtaggtgtt gaatttacca aactttttct atttcaatta ttacattttt actttgttca 120
agtaatatgg tatcatatta aatgaacatt qcattgtgaa aataccctgc ttagtcatgg 180

```
tatgtaatca tccttataacc tttttgtatt ctttttttaa atatttctga gaatttctgt 240
gtctaaattt aaataggatg ttgttttgta atcatcttgt gattcttttg tctcctttgg 300
gtattattgg ccaatagatg aattaagaaa tgttacctct tctactgctt gaagtttttg 360
tgagaaattg atgtttttca ttaagtgttg atgaaatgt 399
```

```
<210> 548
<211> 246
<212> DNA
<213> Homo sapiens
```

```
<400> 548
aaatgcatta taaatgtttt taattgtggt ctgttttttg cagtctttta gtgccatgcc 60
aattgttctt atattctata gaagttcgct caaaatactc aacaggggaa taggcagcgg 120
acagtcagaa tggttggaat tttggctttc taagaaaaac tttattttgc ataagcatgt 180
ggtcagatca ttttgtgcat atgcagcctg gattggatgt taagtaaattg cttgttcagt 240
gccggt 246
```

```
<210> 549
<211> 413
<212> DNA
<213> Homo sapiens
```

```
<400> 549
acaaactggt attttatact gttccaatgc cagtaatcaa tttattttct tcattaaaat 60
aatatacaca gaatgtattg ttagttcgat tccttcaaat tttatacata tttactttct 120
gttaaagaga aaaggataaa atggtataaa aaaagataaa gctattaatt aagcacgaga 180
gagaagataa atggatattt tccctgtgtg aggctaagac agaagcaaatt ctcgttaaga 240
aaaatgccac ccacacaaca ggaaatttat ccaaaaacaaa acaaaagcag ttatagaacc 300
ccttctctac catcagaagt aatttcacag caataaactt attggttaca acagacatac 360
ttgaacagtt aaggatggga agaaaggctt aagatatcac caaattaaac cgt 413
```

```
<210> 550
<211> 215
<212> DNA
<213> Homo sapiens
```

```
<400> 550
acataagggtt caaagtttcc tttccttttt ttattttatt tatattttgc aatgtttttt 60
ttccataata ttttaagttt tcgatgttta gatatttttc ttcgggtgaag cacaagtwtc 120
ttttcatggy cctgkacaa ttttaaacag ttggaacacc ggtggcactg ataactgcty 180
tctgggcagc ctcttttagct tgggggggctb gtagg 215
```

```
<210> 551
<211> 175
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 154
<223> n = A,T,C or G
```

```
<400> 551
ggcggaggag cggtaactac cccggctgcg cacagctcgg cgctccttcc cgctcctca 60
```

cacaccggcc tcagcccgca ccggcagtas aagatgggtga aagaaacaac ttactacgat 120
gttttggggg tyaaacccaa tgctactcat gaanaattga aaaaygctta tmnga 175

<210> 552
<211> 298
<212> DNA
<213> Homo sapiens

<400> 552
acagtgtata ctatccccac caaaggaaaa aaacattaag agcaaaacaa ggggtggggg 60
gtgggaatat tgctaaagaa aattctaata agagttatct ataattatag cttttattta 120
ttatatcttc attcaatcat ttattcacia ttagtctaata tgcattcttg atgaataact 180
gacttcagca aaggagtcaa tccactaagc aaagttcatt ttttttcat gatgttcttc 240
tttcgatctt gagtctttac tctcctggat tcccaagaga actgcattag cctctagt 298

<210> 553
<211> 437
<212> DNA
<213> Homo sapiens

<400> 553
yacaatggct taagcaaate gctttagttt tttttctatt taagatttag gacagactac 60
tcgtctaaaa ttcactatct acagagaagg tcctaggga caggataact tatttaggtt 120
tagctctcat aatacaatat ccataatggc tttagaagaa tgtaaataaa taacattggg 180
aaacagcgta tactgatatt ttctgacaaa ctcatctatc taacatcatg ctgagcaatc 240
aagaggattc ctctatatat tttaaatttt aatttattct atttcctgat tcacaaactc 300
ttgctccatg ttaaagcagt tatcaccaat agaacctatg agaaccagtg cccatggaaa 360
cctaacagct tgttttttta atcccctatt aaaactcggg tgaacttgat atatgcatgg 420
ttgaaatatg cgtgggt 437

<210> 554
<211> 575
<212> DNA
<213> Homo sapiens

<400> 554
ycgaggtaact tttgacaaca tttatctgca tgtccagatc agcaatgagt cggcaattga 60
cttctacagg aagtttggct ttgagattat tgagacaaag aagaactact ataagaggat 120
agagcccgca gatgctcatg tgctgcagaa aaacctcaaa gttccttctg gtcagaatgc 180
agatgtgcaa aagacagaca actgaacaaa ttacaaatga actttcttgc acttgcttgt 240
cgccaaataa aagagaggcc cattgattcc tccccaccc caacactttt cttttaaaagc 300
ttttctccct ccttggttctt gtttttcttt cttcctttcc ttttctctga gagttttaat 360
actttcaagg actttaaaaa aataatcatg tttgaattgt tttctcttat tttgtgagg 420
tggtttgaag gaaggacaag gtagatctgt ttagttttgc agttgaagt agatggctct 480
aaacatttaa ttgtcaaata atttcaaatt taatgtcctg ctttcacatt gaagggcaga 540
gcctacaaaa cattgtatat ttcaaaagac aaaaa 575

<210> 555
<211> 226
<212> DNA
<213> Homo sapiens

<400> 555
accgaaccat gaccaccct ggcaagagcc ttcatgcacc tagcaagtag tcacagcatg 60

catgtgccta gaattgttac gtggtcaaata tatattattg tgtattccca ccaacagtat 120
 gagaagggtcc acttctccat acctccacaa ctctgggcat ctaaaacttt taaaatcctg 180
 gaatcatagg caaaaaaaaaa aaaattcacc catattttcc tctagt 226

<210> 556

<211> 298

<212> DNA

<213> Homo sapiens

<400> 556

acttcatata agtggaaatca tatagtattt gtccttttct gtctggctta tttcacatat 60
 aatgtcttcc aggttcatca tattgtagca catgtcagaa tttcattcct ttttaagggt 120
 gaataatatt ccattatgtg tataccacat tttgtttatc cattcatcca tcaatagaca 180
 tttgggtatt tccaggacaa tatattctta atttaatccc acattttaag acttacaggt 240
 aatttaaatt caattcaact tactgagtat ttactaaggg taactcacta tgggaagt 298

<210> 557

<211> 166

<212> DNA

<213> Homo sapiens

<400> 557

actaatggtc tacatccgat tcaaaaccac atagttcatt gatcacagat gcatgggtatt 60
 agtcacgaaa gtttcagAAC acattgtgtt gattttgaaa ggtcatttgc atcttctatg 120
 atttcaactt tatctccatt taacttgctt gtaaagtatg tatgat 166

<210> 558

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 448

<223> n = A,T,C or G

<400> 558

actccctgtt ttgagaaact ttcttgaaga acaccatagc atgctgggtg tagttgggtgc 60
 tcaccactcg gacgaggtaa ctcgtaatac cagggttaact cttaatgtta cccagcgtga 120
 actcgccggg ctggcaacct ggaacaaaag tctgatcca gtagtcacac ttctttttcc 180
 taaacaggac ggaggtgaca ttgtagctct tgtcttcttt cagctcatag atgggtggcat 240
 acatcttttg cgggtctttg tcttctctga gaattgcatt ccctgccagg cctaccacat 300
 accacttccc ctggaattgg ttgtcctgga agttctgctg cagagggacc ttgctcagag 360
 gtggggctgg gatcagggtct gaggtggagt cctgggcctg ggcatgcaga gcccccaaca 420
 gggctaggcc cagccacagg agacctangg gcatgatttc a 461

<210> 559

<211> 193

<212> DNA

<213> Homo sapiens

<400> 559

accagacaga atcaggaaaa aaaaattgaa aataagcata acactataaa gaaaacttgg 60
 aaaagtgaac cacttctaaa taaaaaatat acacctggcc tggcaccat tacatatata 120

<210>	564
<211>	427
<212>	DNA

<213> Homo sapiens

<400> 564

```
ccgagggtact gtgtagtggt atcagtggtt aaaatggaag atcattatga agaaacaatt 60
tgtcatttgg gtatatctgt ttctatagga caaggatttg tgtctaaata ttccttactt 120
gtatctcaga ggactatctg ttaaataatt gatcttaatg ccagcataag aaatcaaggg 180
aactatttct cagacatttc tttctctaaa ttaagtaggg tttcagggtc caagtttaca 240
ttgagagaac tatgttacct gggagagaaat gtaaatTTTT ctaattccca aacaaaacca 300
ctaatttcta ggaaacattt attgtttata tgcagatcct agagacttct atttcagtgc 360
ggatcaacaa cttcaaaaat atacagcctc ctatttatTTT acaataatat ttacatacaa 420
atgaagt 427
```

<210> 565

<211> 214

<212> DNA

<213> Homo sapiens

<400> 565

```
tcgagggtact gggctcttttc cagccaggcc tgcaacggtg accttaatcc cagctcgccct 60
catgacatct acagggatga ccgtctccat ttctctgct ccttttagcca ggatgaccag 120
agctcttttg gaagccattt ttatgttata tgtttacaag ccccacacca ggctgaaaat 180
gaacgcacgc cagcacgcac gcgcgcgcgtc cggc 214
```

<210> 566

<211> 382

<212> DNA

<213> Homo sapiens

<400> 566

```
ccgagggtact tttagttttt tcacataact ctctaaaggc cttttcaaaa agtctctttc 60
actggcatca tctactagaa caatttcttc tatcatgtgt cttggtgagc gattaatgac 120
actatggaca gttcgcagaa gtgtgctcca agcctcattg tggaaaacaa tcaccacact 180
tggtgtagga agattatctg gatacacctt tgttttacac ccttctaacc taacatctgg 240
taaagatctg ttgagtgcac tcatctcact tgccattaaa ttgaactgat tgattttaaa 300
catctctttc atcttttctt gatcctcttt aggaatgacg actgggttcc ccatttctcc 360
aggaccttca tgaggctttt gt 382
```

<210> 567

<211> 271

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 168

<223> n = A,T,C or G

<400> 567

```
cgagggtacaa ttaccaccca ctggagggtga ctgagagagg acccccagag ggtgtctcca 60
tcttccctat ttattttcag ccttgagggt cttcattgta gatcaaagcc aaggccccca 120
ggaagggtgac atactcctgg aagttcacct cctggctcct gttccggncc aagtcttcca 180
tcagccttgc aatttcagca tctgcagct tcgagccaat ggtgagctcc ttctggatca 240
gctccttcag ctcttcttgg ctgagggtgt g 271
```

<210> 568
 <211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 326
 <223> n = A,T,C or G

<400> 568
 cgaggtgcag tgtatattcc ttgtgtgtga atccaaatct ttttcatagg taatgacaga 60
 tgccttaatg tgaagcttat ttataatagc aataaaccta actggatttg gatgaagaag 120
 tcttaatact gacatactgg atttttaatg cactggtttg ttatttggtg ttctatctct 180
 ttttccaggc ctccagggtg cacatttatt tattatgttc aatacttttg ttcttagttc 240
 ttaaagaatc aagaagttgt gtaatctttt aaaaatatta tcttgcagat aaagaaaaaa 300
 attaagagtg tgtttacaac tgtttinctt tttttacagt 340

<210> 569
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 569
 gccaggtaaa ccaagacttg gtctcagtga agaaattcca gaggtcaccg gcaaagaagt 60
 tcccttctca tcatcttcat ctgagctatt aaagatatat acagttgtac agtttgctct 120
 gatgttggca ttttatgaag agaccttgc agatac 156

<210> 570
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 176
 <223> n = A,T,C or G

<400> 570
 acagtactca gtatatctga gataaactct ataatgtttt ggataaaaat aacattccaa 60
 tcaactattgt atatatgtgc atgtattttt taaattaaag atgtctagtt gctttttata 120
 agaccaagaa ggagaaaatc cgacaacctg gaaagaattt tggtttccact gcttgnatga 180
 tggttcccat tcatacccta taaatctcta acaaga 216

<210> 571
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 571
 tcgagggtttt gtaatccaag gttctgacta aaagcaaaaa tacacggcat agattgcaac 60
 agcaaagaag tgtccaatta aaactagagg gttaggagac aatacagaaa gcagcccaac 120
 aggaccgcga acacattcgc caccaagttt tgaaataaag aaa 163

1005360.2160

<210> 572
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 572
 gccaacgtgc agcggctgaa ggagtaccgc tccaaactca tcctcttccc caggaagccc 60
 tcggcccccaga agaagggaga cagttctgct gaagaactga aactggccac ccagctgacc 120
 ggaccggtca tgcccgtccg gaacgtctat tagaag 156

<210> 573
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 573
 ctggagccgc tgtggttgct gtccgcggag tggagcgcg tgcttttggt tgtgtccctg 60
 gccatggcgc tgcagctctc ccgggagcag ggaatcacc tgccgcggag cgccgaaatc 120
 gtggccgagt tcttctcatt cggcatcaac agcattttat atcagcgtgg catatatcca 180
 tctgaaacct ttactcgagt gcagaaatac ggactcacct tgcttgtaac tactgatctt 240
 gagctcataa aatacctaaa taatgtggtg gaacaattga aagattgggt atacaagtgt 300
 tcagttcaga aactggttgt agttatctca aatattgaaa gtggtgaggt cctggaaaga 360
 tggcagtttg atattgagtg tgacaagact gcaaaagatg acagtgcacc caga 414

<210> 574
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 574
 ctggagccgc tgtggttgct gtccgcggag tggagcgcg tgcttttggt tgtgtccctg 60
 gccatggcgc tgcagctctc ccgggagcag ggaatcacc tgccgcggag cgccgaaatc 120
 gtggccgagt tcttctcatt cggcatcaac agcattttat atcagcgtgg catatatcca 180
 tctgaaacct ttactcgagt gcagaaatac ggactcacct tgcttgtaac tactgatctt 240
 gagctcataa aatacctaaa taatgtggtg gaacaattga aagattgggt atacaagtgt 300
 tcagttcaga aactggttgt agttatctca aatattgaaa gtggtgaggt cctggaaaga 360
 tggcagtttg atattgagtg tgacaagact gcaaaagatg acagtgcacc caga 414

<210> 575
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 383
 <223> n = A,T,C or G

<400> 575
 tggatatgggt catataggtt cgggtacaaca tgaagccatg gtcctgggta tggagaagt 60
 agtacttcag acaaacagaa ataaaagagg acactgtgac tatagccaag gaacttttgc 120
 gtatagctgt taaggagggt tgtcatctcc accagatgtg ggtttatgcc ttacctgctt 180
 gacagcctca aagggtcattg gcaagattga atgaatgggc ccacgggggc aaagcaagtc 240
 taggaaagcc agtaaatgcc caacctatta gaataaggga gaagaattag aatatcaggg 300

aagtttctgg atagaggaca agaaagaata ggctatttag aaaaaaaaag gtgtggtccc 360
attattttca ggcttcaccc tanatgacac atgagcaaaa gccacttcg ccatcat 417

<210> 576
<211> 245
<212> DNA
<213> Homo sapiens

<400> 576
ggaagggggg accctgccaa agatgaggct ccagctgccc tggggggagg gtggtggcca 60
ttactagagg gggcctgggt cctctcccca ggggctgcca gcatccaggc caggaagcct 120
ggagccaaga accttctggc tctgagggag caagagctgg caggcggcag ggctggcaca 180
gacagacgga agcagaaagg acagtttggc tgctgtgtct gctgcgcacg cccctcccc 240
ggaca 245

<210> 577
<211> 418
<212> DNA
<213> Homo sapiens

<400> 577
gaaaaccctt taatgttggg ctttctttaa ataaaacaga aaggttgcag ctttcccatg 60
gtggctgtaa ggcaagaaca gcagtgaggg cgggcgtgtt ctatcgggca gtgctgcagc 120
ccttgactct ggctcaagggt gggcttcctg gaggcagcgg caaggaggca gttctggatg 180
tgcaggcaca gatgtagggg aacaggcaag cgggcacagg gccctgagct gacaagcagt 240
gacccctgca cccagctaga tggggcaccc cctctctggg agctgagggc atcagctgga 300
gcctcaggct gggaccagcc ccaactttgc cttggtgact ctgggccatt ccaggcctca 360
gtttccccac tgtaaggtga ggcattaggc aggagggggg ggccccagcc agtgtcct 418

<210> 578
<211> 363
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 153
<223> n = A,T,C or G

<400> 578
aaagcccaga aggcacttta ttggaggtct ctgcctccat tcacaggaga aaggagctgg 60
gagccccatc ctagggtccc agcatcagcc cactggaggg cctggaacag tccagcactc 120
tgtgggagag gagtggggag gggaatgttt tanaaaaaat agatctctat gtacatctga 180
catatttata tagcacataa attagggagt gctctgacct ctgcccgtgg agcccaagca 240
ctgagcaggg aggtgaacgc cagtccagaa agaagggtgct ggagcccctg ctctgttctc 300
tccatcacgg ggctccccta gggcctcccc aggcctcctt ggctcagtc aggtttgtct 360
gca 363

<210> 579
<211> 403
<212> DNA
<213> Homo sapiens

<400> 579

```
<210> 580
<211> 403
<212> DNA
<213> Homo sapiens
```

```
<210> 581
<211> 432
<212> DNA
<213> Homo sapiens
```

```
<210> 582
<211> 215
<212> DNA
<213> Homo sapiens
```

<400>	582						
gtttattttca	gctttacttta	aaatttttagt	ttcaaattgaa	atgaaatgtg	acactgaagc	60	
ataagaacac	aactgaagac	tgcaacaac	ctaattcatt	ttcccaggtt	gcttaagcct	120	
ncaagcacca	ntcaaataatc	gnantcnatt	aaaagnaggn	ctttcccatt	tgtngcengc	180	
ttcngaattg	aacntatttta	aaaccntcaa	tttct			215	

```
<220>
<221> misc_feature
<222> 408
<223> n = A,T,C or G
```

```
<210> 584
<211> 431
<212> DNA
<213> Homo sapiens
```

```
<210> 585
<211> 412
<212> DNA
<213> Homo sapiens
```

```
<210> 586
<211> 431
<212> DNA
<213> Homo sapiens
```

```

aagaaaaggg agccaagaag aaagtgggtg atccattttc taagaaagat tggatatgatg 60
tgaaagcacc tgctatgttc aatataagaa atattggaaa gacgctcgtc accaggaccc 120
aaggaaccaa aattgcatct gatgggtctca agggctcgtg gtttgaagtg agtcttgctg 180
atttgcagaa tgatgaagtt gcatttagaa aattcaagct gattactgaa gatgttcagg 240
gtaaaaactg cctgactaac ttccatggca tggatcttac ccgtgacaaa atgtgttcca 300
tgggtcaaaaa atggcagaca atgattgaag ctacagttga tgtcaagact accgatgggt 360
acttgcttcg tctgttctgt gttgggttta ctaaaaaacg caacaatcag atacggaaga 420
cctcttatgc t                                     431

```

```

<210> 587
<211> 132
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 90, 128
<223> n = A,T,C or G

```

```

<400> 587
aactttccca tgggtcaaagg aaaaacaagc aggagttgag tggctggggg ggggtgcagg 60
caatggagag agggcataag ggtgtagaan ctgaaggggg ctagaagctt actcctgagc 120
ttcttacntc cg                                     132

```

```

<210> 588
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 32, 47, 53, 56, 70, 72, 102, 128, 129, 165, 190, 420
<223> n = A,T,C or G

```

```

<400> 588
gggcttcttc aangaacctc agctgaaacc tntgggggat tactganttg atntgnccac 60
cagaacaggn gngctcgctt ttgttctgaa atcaaaccct cnaaagaccg ggagaagggg 120
tcacccannc gtggatcggtt ggcattgttg gaaaagggaa accgnaacgg cccggatcat 180
tgacaagccn cgaagttatt gaagtcctgc ctgctggggc cacagctgct tgttcttgct 240
cctgacagtt caaatgcctc ctttgagcct agctcgtgag atgaaagaac agaagttggt 300
tggaccttag agccattatc cacaatcacg gatgggttctc aagagttgat tgtaagaaat 360
ttccaaagaa ggctgcctgc atagtgggtc cggctgcctt ttctaggtga ttggaatcan 420
cccat                                             425

```

```

<210> 589
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 589
caacagttat tttattagga tgtcagccct ggggtccagag tgagagatag ggacagggga 60
cagcccagcg aggctgggtc ggggggtcact ccaggatggt ccaaccacag gggcagcatc 120
tcctccactc cacatgctgg ccaagggcac agagctgccg tatcgctgc caaggggggtg 180
gctcaatgct gctgccttgg tcctgtatgg gcccggggtg ccgagaacag acagcaagcc 240

```

tcaggcgccg gtcctttgag ctttcttgat ttccctcagag agcgccctcct tcagctctgc 300
 gtaggcctgg tccaggctgt cgttaatgat gaccacatca aacaggccgg gctccttgct 360
 gctctccatg tcggcctggg cagcagccag ccgcttcacc aggctctcct cgggtttcagt 420
 gttgc 425

<210> 590
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 590
 acaagtatac atataatcta gataagggct gtaatgtttc ctaatatataa ttactgtact 60
 taaaaattta caggacatga acataaataa agctgtttta aactggcaaa cgtagtaata 120
 gtctgtcatt cagtacaagg tatattttatg ttattttccaa agccatcacc ctaaaatcct 180
 aagttgccac tcttaaaacc taaaaataat gtcgaaaact aaagtcataa atacatgtat 240
 acatacattt gcatatttac acttatgcag aaatcatcaa tatactagag cccagcttta 300
 acactgtcct tcagtttcac acagaaggac ccctaataac tgtaaataa taaatatgtc 360
 aggttaaagg gaaaaggtgt tcagggcact tcttgtcctc tctgtcccat aacctacctc 420
 ccccc 425

<210> 591
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 591
 aagtatgtat gtacaagact caagtaaata gaaaggcagc tttcaatcac aaatcagttt 60
 ttcagatttt actgtggaag catattttaat gcacacattt gaatgttaca cataaataat 120
 tttaacgatg gagtccaagt tctggatttt acattagatc tgcatatata agacacttgt 180
 ggtcaaattt caagatttgt aaagccagtt tcaagctgct tatattttga gtacagggtt 240
 cactattaca aatatatgat gttaaactaa caaactcatg accttcaaag atgtcttcgt 300
 cccacgcaca cacatttgta atttgtgtcc atttgtctatt tcccttcttc tataatcttc 360
 aaattatata gttatgcatt gagttcccta tgcactctcac ccatctcctt tatctcagcc 420
 ttctc 425

<210> 592
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 592
 agtgaaaatg ggttggtttt tgtcttcgac gctcagggctc tgggcgccctc gcatttgcag 60
 tctgttgtga cagacacggg gagctccgag tgccagcctg tggctgccct gctgtggggg 120
 tcctggggcc ggcgaggccc cttcagtcct gttctggggg gacggcccac tccggggagg 180
 ggggtgtgctg tgctgagcgc tgtatccctg aatatagttt attttttcta catttgaatt 240
 ctgttgtaga tttatgtaaa aatacattct ttttgaaaat aaaaattttc atgtcttct 299

<210> 593
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 593
 tttttttttc tttttcccag gaggcggcga cggcggcggc ggggggagag gaagagaaag 60

```

aagcgtctcc agctgaagcc aatgcagccc tccggctctc cgcgaagaag ttccctgccc 120
cgatgagccc ccgccgtgcg tccccgacta tccccaggcg ggcgtggggc accgggcccc 180
gcgccgacga tgcgtgccgt tttgcccttg ggagtaggat gtggtgaaaag gatggggctt 240
ctcccttacg gggctcaciaa tggccagaaa agattccgtg aagtgtctgc gctgcctgct 300
ctacgccctc aatctgctct tttggaatca tcacattcca cttctaaaag gagctttaaa 360
gatggcctgg ttgaacgtcc ttcctttgtg agtgaggaaa ttaagtgcag attaagtgc 420
ttgcc 425

```

```

<210> 594
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 594
gtcactagct ggctaaggct taaagcagag acgtgtgact gggctctctcg ggagggcctc 60
tggttcttcc cgggctcagg cttgctgggg gctggggggc agggctctgg cgacctagag 120
gtgtggacgg cacagctgca ggaggccttc tcttaaccct ccgagagtgg gactgggaga 180
tttctcttga agtcccaaag agggcctgtg cccaggggac ctctctctcg gcctcccagg 240
tgggtgggtgc aagctggttc ttggccatgc tccagggctcg ggtgggcaca ggcgtccact 300
ccagtgtgct gcgtgcttgt gagactgcct gttctgggac cagcccctgg gctcttccac 360
caagatttgg tgagggtccc cctctgcctc tcacagaagc ccctggccct ggactgtcct 420
ggggg 425

```

```

<210> 595
<211> 162
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 43, 102, 126, 154, 158, 160
<223> n = A,T,C or G

```

```

<400> 595
ctttacatta ttttttttcc aaaaagacta gtatttatac aangggcaat agaaacaaaa 60
acaaaaaccc ttccgactgc cacctggaag gggctggctg gnetgctccc tctcccacct 120
ggaaacngggg ggggcactgg gcaggaggga atgnnggan gn 162

```

```

<210> 596
<211> 283
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 17, 106, 111, 115, 120, 127, 131, 144, 150, 153, 155, 160,
166, 171, 176, 182, 201, 203, 205, 212, 220, 221, 224, 232,
239, 242, 259
<223> n = A,T,C or G

```

```

<400> 596
aaggtagctc aacacnctct tctcaagga cttcttggtg atactctctt gtcttttcca 60
gttaccctct tctcctttg tctctgtgct ttgggctcac aacttnatgg nctgnacttn 120
ataaaanaac natggcaact ttgnccctgan tgnccnccctn cccaanctga nctggntgga 180

```

T06T2T"000000T

anaagaaact tggaaactat ntnanccatg gntttgggan nctnccccct tncccatgnc 240
tnctaataaa accatgcant gcctttggag agaagagacc ccc 283

<210> 597
<211> 426
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 41, 43, 46, 197, 200, 207, 211, 217, 255, 277, 287, 293,
297, 304, 318, 327, 333, 355, 357, 359, 375, 379, 380, 394,
405, 407, 409
<223> n = A,T,C or G

<400> 597
gaaatacaaa tgtggattct catcactgaa aaatccttga ngntgngttt attcctttca 60
tcatttttta aatatttttt ttactgccta tgggctgtga tgtatataga agttgtacat 120
taaacatacc ctcatTTTTT tcttttcttt tttttttttt ttttagccc aaagtttttag 180
tttctttttc atgatgnggn acctccnaag ngatggnaga tttaaataat tttttatttt 240
tattttatat atttnttcat tagggccttt tctcccnaaa acgaaanaaa aantccnaaa 300
aacnaaacc aaaaaaanag agggtantgt ccnagtttct gtatgtataa agtcntncnc 360
gatttcagga gagcncctggn cccaatttgc tccntgaatc aaggngngna aatggttttt 420
ttggcg 426

<210> 598
<211> 412
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 241, 262, 300, 309, 312, 318, 327, 329, 385, 390, 399, 402
<223> n = A,T,C or G

<400> 598
tttttttttt tttttttttg ccacctagag atgataatTT attgtttttac catgactcag 60
aagagaaaca acataaagag aatattttcaa atccccacaa tttccttctc aacctcacta 120
ctcttaacat ttctttatca gacgccactg gcttcctaaa atggaccctg gactatgtat 180
ggggaccaca ttcatTTatgc tgccctttcct cttatgatta aaacttttagc cctcattcga 240
nggttccaat ggtactttta gnggaggagt ccttagcttt taaaaaaacc acttttctn 300
taaaatcctn tntttatnga aaaaaancnt ttttaaaaat gttaaggagg attttaaatg 360
accatattca attaaaaaaa aaatnccttn tggaacatnt tngcagaaac ct 412

<210> 599
<211> 415
<212> DNA
<213> Homo sapiens

<400> 599
ccaagatgac aaagaaaaga aggaacaatg gtcgtgccaa aaagggccgc ggccacgtgc 60
agcctattcg ctgcactaac tgtgccgat gcgtgcccaa ggacaaggcc attaagaaat 120
tcgtcattcg aaacatagtg gaggccgcag cagtcaggga catttctgaa gcgagcgtct 180
tcgatgccta tgtgcttccc aagctgtatg tgaagctaca ttactgtgtg agttgtgcaa 240

ttcacagcaa agtagtcagg aatcgatctc gtgaagcccg caaggaccga acacccccac 300
 cccgatttag acctgcgggt gctgccccac gtccccacc aaagcccatg taaggagctg 360
 agttcttaaa gactgaagac aggctattct ctggagaaaa ataaaatgga aattg 415

<210> 600
 <211> 208
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 45, 66
 <223> n = A,T,C or G

<400> 600
 aaaccgcctt tttttttttt ttttttttaa tatgcagttt gtaanaacaa aactggatgg 60
 catcanaatt gtctggaagt tttgtcttgg gcagtatggg ctgggccaaa tgaaatgatt 120
 tttataattc taaacagggt accaaatgaa atgtcatggc tttactttgg caattaaagg 180
 ggggaatttt tttaaaaaaa aaaaaaaaa 208

<210> 601
 <211> 165
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 19
 <223> n = A,T,C or G

<400> 601
 tgcaggtcga cactagtgna tccaaagaaa gtaacctaaa cttgacctgc ttaatacatt 60
 ctagggcaga gaaccacaga tgggacacta aaaaaatgtg tttatttcat tatctgcttg 120
 gatttatttg tgtttttgta acacaaaaaa taaatgtttt gatata 165

<210> 602
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 602
 aaaacggttt tgccgagttg ggacgtccac tgctgtcaag tcaaccagag atttgaactg 60
 tgcattggtg tgatccctga ggaaagtcag cactgggatg acgcatcag gatggatata 120
 gacctctaac tcattgaagc aggacacctg aacttggttg acatacttgg gcaagatttc 180
 agccacatac tctccaaaag ctgagagctg cttgtggggc acatcattcc gtgggtctgac 240
 agtggggcgc gtgtcggccc cggcgctctc ccgcctcacc ggcagcaaca gaacggaggg 300
 tcgcccagtc cccctggtca gcgccgaggc cccaagatc ccgcgccacc acagcctggc 360
 taccgccgcc gcgagtactt ctagagcggc cgcgggcccc tcgattttcc acccgg 416

<210> 603
 <211> 416
 <212> DNA
 <213> Homo sapiens

10025330.121901

<220>
 <221> misc_feature
 <222> 31, 99, 174, 242, 249, 331, 415
 <223> n = A,T,C or G

<400> 603
 catgagcata aaaaaaaaaac ccaaacctgt nccatacccc tcccactcat gcaaacagct 60
 cttaaaatga agaattcttt caaaatttta cgttttttnc attcttggct caattctttt 120
 gctttcctca tcatcagaat tcaaactttg ggcaaacatg ggttttgggc tgantctttg 180
 gaatatgctg gaaaaacccc aatatgggct gcttctgctt gtttggcatg acgcaaaatg 240
 gnttcccang atactgcac gtcttgccaa gaatgttcca ttagaaaaag gcccggtcc 300
 tcgccacact ggctggcctc tgctgggtgc ntctagagta tatcggtgc acctcagtgc 360
 atctgtccat aatttttttg aaaaaaaaaa ctcaatctta acgcgggcat attcnc 416

<210> 604
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 291, 359, 367, 369, 371, 374, 381, 383, 387, 400
 <223> n = A,T,C or G

<400> 604
 aaaatttatg agctttatta aagcggttta tcacaaagat ggaaacgtac aaatgagaag 60
 catgcaacca tcatcttcca cagtcaagtc aaactgctat ttctctctct ctctgtttc 120
 atagagctgg aaactgcagg tgttataccc aacctattca tcctcaacac tgtagtcacg 180
 ccccggaac tactcagggc accaaacatc caaaacataa actattatta taaaaagaaa 240
 gtgcaaagtt aaaaaagaaa acatggagac ccctcccccc cataccctca nctaaaggct 300
 aacaatggca cttgggctct tgcttaatct agattgtctt caaaaagtct ctaaaatgng 360
 atactgngng ngngggggg ngngaanggt caaaagctn cttagtgttt gaaa 414

<210> 605
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 605
 ttctctttca caatcactca acaaacaggt cacacatccc ctaggtccac gaactcatct 60
 tctcgtttgg ccaaatcgct ttcattctcc aaagctttcc agccactggt gggtaagacg 120
 ggcttagagg aatgtcgctg gagcagagcg aaaggaaaca aagacgagag gcgggcagag 180
 ttctcagca ggcagggggc ctgagcctgg ggggcctgct ggctgtggtg tctctcgctg 240
 atcttctctt gtaaaactct gacttccctc atcatttcca agagtttgct cagagtggcc 300
 acttggccac cacctaggat ttgggcttct ggaatccaac gtaggtagcg ctggggccag 360
 actttgattt cgggcccctc gatatgcggt aacaacaaac catggtagtc agtggac 417

<210> 606
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 606
 ctgaattctt taatttaaaa aaatcatacc taggaggtgt gctataggaa ttcagatata 60

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```

ataagttgca tataaaaccc gacctcattg ctcatgtgtg taaagcaagg atgatgagaa 120
aatgcacctc aggagcaaaa acacgcttta cgggcactcc gggacccaag tcccagagaca 180
tttccacgtg accttctgga aagacacacc gccacactga ctgcacgacg ggactgggtcc 240
agcctcccgg ctccctcagga aggagatgag tttcctacaa agtgagtggc cacagctcca 300
ggacagggcg tccacatgtc gttgtgggtc tggctggatt ttgaggtgcc gaggaactgg 360
tcggtgtcct gatcgtattg tacgtgggtc tctcgatctc ccaactgcc taa 413

```

```

<210> 607
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 376, 384
<223> n = A,T,C or G

```

```

<400> 607
attttcatta aaactgtcag aatttgctta ctataattat gatacagtcc aaagaatgca 60
gtcacttttt atcatgttaa ctaattgttc tcttttgaag atctatgggt gactaattaa 120
acaataattc aagtagagtg tcccagaaaa aaaccacttg ggctccctgt ttggagtctg 180
gctggctctg agcattgcc atggccctta ctacactgac tttgtatcct ctcccttttag 240
aggctttgca ttctgcaccc agcttcaact acagtggggt gaaaacatcc ttgggttgag 300
tgtttcattt gggagttatt tggccagggc cttttgaaca gtaagtgtcc ccatgaagtg 360
ctagataata tatgngntaa agangtcagc tttttttttt tttttaactc taac 414

```

```

<210> 608
<211> 415
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 22, 288, 307, 310, 322, 336, 340, 343, 352, 353, 372, 381,
395, 408
<223> n = A,T,C or G

```

```

<400> 608
gcagtgggtc gatcttaagg gncatatatat ttgcacctcc tcattcaaca cagggctgga 60
ggttctacaa caggaaatca ggctacagc atcctgtgta tcttgagtt gggattttta 120
aacatactat aaagtctgtg ttggtatagt acccttcata aggaaaaaat gaagtaatgc 180
ctataagtag caggcctttg tacctcagtg tgaagagaaa tcaagagatg ctaaaagctt 240
tacaatggaa gtggcctcat ggatgaatcc ggggtatgag ccagganaa cgtgctgctt 300
tttggtnacn tatccctttt tntcttaaga aagcanggtc ctntcttatt annaaatatg 360
ttaaaaaatg gnaagcaaac nacaggtgcc tttanaaatt accaattntt aactt 415

```

```

<210> 609
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<400> 609
ggtttttaaaa ttatttcttg aatctctcca tacacaggca aaaataagtg tgttacttaa 60
catactggaa attgcctaac ttaatcattg cctaaagaag agaaaattat ccccaaaacg 120

```

```

tgcttaacca ggaggccaat gcatttgccg acctccaaga acatggagat gaacgtgata 180
gacagactgt ccaccatctg aaccttcatt caccaccatt cgataaccct tattcaggcc 240
cagatcagca gcacatttct tgccaacaat cattaagtgt ccaagaagac tttcatcatc 300
atcttctgcc acagaaatct gggatatatg tttcttgggt atcaccagaa aatgtgttgg 360
tgcttgaggg gaaatgtcat ggaaagcaag gcaccggtca tccttaaaaa tgattttggc 420

```

```

<210> 610
<211> 158
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 25, 29, 31, 37, 66, 83, 86
<223> n = A,T,C or G

```

```

<400> 610
caactttaaa aaaaaggggg cggtnaaana nccaaanata aaaagggtccc tttgggtggat 60
aaaggnccct ttccggggacc ggnccnggac ccacctttgg gcccaaaggg ggattttaccg 120
ggtaaaccaa gccttttaaag cgttgggggt taaatttc 158

```

```

<210> 611
<211> 159
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 132, 147, 152, 154
<223> n = A,T,C or G

```

```

<400> 611
tcgacactag tggatccaaa ggaagatggc ggacattcag actgagcgtg cctacccaaa 60
gcagccgacc atctttcaaa acaagaagag ggtcctgctg ggagaaactg gcaaggagaa 120
gctcccgcgg tntacaaga acatcgntct gngnttcaa 159

```

```

<210> 612
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<400> 612
gcatttttta ttaagacatt tggggcccca gtttcctctc ctctccctcc ccatcctgtg 60
ctctctaaat tcagcttttg gaaacctaa gttgcccacc ttccccagca ggtagccaga 120
gctctcgggg tccctcttcc ttcttctttt ctccccagat actgcaagag acaccaagt 180
ctgctgtcag cagagggtga agcgtctggc actgatgttc atgcgcgtga gtcccagatg 240
ccgcagcggg ggggccagag gcaagccagt cccagactct aactccatct ccagctcagc 300
ctcatccaga agctcctggt gcagggtgaca gacttgggtcc actttcagtc tgtgcagccg 360
ggcccgcagc ctgagcagct gccctgccag ctgccggtcc tgagcccga tctcctgca 419

```

```

<210> 613
<211> 419
<212> DNA

```

T06T2T"08E520T

<223> n = A, T, C or G

<400> 616
 tgatgccacc ccgtcacccc tcccctcctg agcagggatc caagaatgtg ccaagagtcc 60
 cgccagcctc agccaggtgg gcctgtatat aggggccatg tgcaataggg agggacgtct 120
 tctatTTTTT gctgccccct ccccgccac tgtctngggg cagggggaga aggtatTTTT 180
 nagataaagc acangcacca caaataaaag 210

<210> 617
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 617
 acgagctttc gtggctcact ccctttcctc tgetgccgct cggtcacgct tgtgcccga 60
 ggaggaaaca gtgacagacc tggagactgc agttctctat ccttcacaca gctctttcac 120
 catgcctgga tcacttcctt tgaatgcaga agcttgctgg ccaaaagatg tgggaattgt 180
 tgcccttgag atctatTTTt cttctcaata tgttgatcaa gcagagttgg aaaaatatga 240
 tgggtgtagat gctggaaagt ataccattgg cttggggccag gccaaagatgg gcttctgcac 300
 agatagagaa gatattaact ctctttgcat gactgtgggt cagaatctta tggagagaaa 360
 taacctttcc tatgattgca ttgggaggct ggaagttgga acagagacaa tcatcgacaa 420
 atcaaagtct gtgaagacta atttgatgca gctgtttgaa gagtctggga atacagatat 480
 agaaggaatc gacacaacta atgcatgcta t 511

<210> 618
 <211> 511
 <212> DNA
 <213> Homo sapiens

<400> 618
 acgaggccac agaggcggcg gagagatggc cttcagcggc tcccaggctc cctacctgag 60
 tccagctgtc cccttttctg ggactattca aggaggtctc caggacggac ttcagatcac 120
 tgtcaatggg accgtttctc gctccagtgg aaccaggttt gctgtgaact ttcagactgg 180
 cttcagtgga aatgacattg ccttccactt caacctcgg tttgaagatg gagggtagct 240
 ggtgtgcaac acgaggcaga acggaagctg gggggccgag gagaggaaga cacacatgcc 300
 tttccagaag gggatgccct ttgacctctg cttcctgggt cagagctcag atttcaagg 360
 gatggtgaac gggatcctct tcgtgcagta cttccacgc gtgcccttcc accgtgtgga 420
 caccatctcc gtcaatggct ctgtgcagct gtccacatc agcttccagc ctccggcgct 480
 gtggcctgcc aaccgggctc ccattacca g 511

<210> 619
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 619
 gaattcggca cgagctggac aggagaagag cctggctgct gaaggcaggg ctgacacgac 60
 cacgggcagc attgctggag ccccagagga tgaaagatcg cagagcacag cccccaggc 120
 accagagtgc ttcgacctg ccggaccggc tgggctcgtg aggccgacat ctggcctttc 180
 ccaggggcca ggaaaggaaa ccttggaaaag tgctctaate gctctagact ctgaaaaacc 240
 caagaaactt cgcttccacc caaagcagct gtacttctct gccaggcagg gtgagctgca 300
 gaaggtgctt ctcatgctgg ttgatggaat tgatcccaac ttcaaatgg agcaccaaaag 360
 taagcgttcc ccattacatg ctgctgcgga ggctggccac gtggacatct gcc 413

<210> 620

<211> 415
 <212> DNA
 <213> Homo sapiens

<400> 620
 gaattcggca cgagcggcga cgggtggtggt gactgagcgg agcccgggtga caggatgttg 60
 gtgtttggtat taggagatct gcacatccca caccgggtgca acagtttgcc agctaaattc 120
 aaaaaactcc tgggtgccagg aaaaattcag cacattctct gcacaggaaa cctttgcacc 180
 aaagagagtt atgactatct caagactctg gctggtgatg ttcattattgt gagaggagac 240
 ttcgatgaga atctgaatta tccagaacag aaagtttgtga ctggttgaca gttcaaaatt 300
 ggtctgatcc atggacatca agttattcca tggggagata tggccagctt agccctgttg 360
 cagaggcaat ttgatgtgga cattcttata tcgggacaca cacacaaatt tgaag 415

<210> 621
 <211> 421
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8
 <223> n = A,T,C or G

<400> 621
 agaattcngc acgagtggca gcctaagccg tgggaggggt ccagtcgaga atgggaagat 60
 gaaagacttc agatggaaca gaaataaatg ccttttttga caaacgcagc agtgcgtgcc 120
 tctagcttgc aagagcgtta ctcccccttca tagcttttaa aggttttcgc actgcgtgca 180
 gttagagtag ctaaattcttg tgtgacgctc cacaaacact tgtaagaatt ttgcagagaa 240
 agataaccgt tgccacccaa tgccccccac aggcatctta ctccccagta cctcttaggg 300
 tgggagaaat ggtgaagagt tgttcctaca acttgctaac ctagtggaca gggtagtaga 360
 ttagcatcat ccg gatagat gtgaagagga cggctgtttg gataataatt aaggataaaa 420
 t 421

<210> 622
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8, 11, 17
 <223> n = A,T,C or G

<400> 622
 cccggggngg ncctggncat aaaactttta attttactag tgttacttaa tgtatattct 60
 aaaaagagaa tgcagtaact aatgccctaa atgtttgatc tctgtttgtc attacttttt 120
 caaaattatt tttttctgta aagtataata tataaaactt cttgcttaaa ttgaatttct 180
 atattagtgg ttaattgcag tttattaaag ggatcattat cagtaatttc atagcaactg 240
 ttctagtgtt ttgtgttttt aaaacagaat taggaatttg agatatctga ttatattttt 300
 catatgaatc acagacctcg gccgcgacca cgctaagggc gaattccagc acactggcgg 360
 ccgctactag tggatccgag ctcggtacca agcttgggag taatcatggt catagcctgt 420
 ttctgtgtg a 431

<210> 623

10052001

```
<220>
<221> misc_feature
<222> 81, 101, 103, 107, 111, 112, 180, 309, 331, 388, 404, 415
<223> n = A,T,C or G
```

```
<210> 624
<211> 421
<212> DNA
<213> Homo sapiens
```

```
<210> 625
<211> 421
<212> DNA
<213> Homo sapiens
```

```
<210> 626
<211> 476
<212> DNA
<213> Homo sapiens
```

```
<210> 627
<211> 503
<212> DNA
<213> Homo sapiens
```

```
<210> 628
<211> 248
<212> DNA
<213> Homo sapiens
```

```
<210> 629
<211> 99
<212> DNA
<213> Homo sapiens
```

```
<210> 630
<211> 640
<212> DNA
<213> Homo sapiens
```

<400> 630
gaagacatga tgctacactc agctttgqgt ctctgcctct tactcgtcac agttttcttcc 60


```

aaccttgcca ttgcaataaa aaaggaaaag aggcctcctc agacactctc aagaggatgg 120
ggagatgaca tcacttgggt acaaacttat gaagaaggtc tcttttatgc tcaaaaaagt 180
aagaagccat taatggttat tcatcacctg gaggattgtc aatactctca agcactaaag 240
aaagtatttg cccaaaatga agaaatacaa gaaatggctc agaataagtt catcatgcta 300
aaccttatgc atgaaaccac tgataagaat ttatcacctg atgggcaata tgtgcctaga 360
atcatgtttg tagacccttc tttaacagtt agagctgaca tagctggaag atactctaac 420
agattgtaca catatgagcc tcgggattta cccctattga tagaaaacat gaagaaagca 480
ttaagactta ttcagtcaga gctataagag atgatggaaa aaagccttca cttcaaagaa 540
gtcaaatttc atgaagaaaa cctctggcac attgacaaat actaaatgtg caagtatata 600
gattttgtaa tattactatt tagttttttt aatgtgtttg 640

```

```

<210> 631
<211> 168
<212> PRT
<213> Homo sapiens

```

```

<400> 631
Glu Asp Met Met Leu His Ser Ala Leu Gly Leu Cys Leu Leu Leu Val
 1             5             10             15
Thr Val Ser Ser Asn Leu Ala Ile Ala Ile Lys Lys Glu Lys Arg Pro
      20             25             30
Pro Gln Thr Leu Ser Arg Gly Trp Gly Asp Asp Ile Thr Trp Val Gln
      35             40             45
Thr Tyr Glu Glu Gly Leu Phe Tyr Ala Gln Lys Ser Lys Lys Pro Leu
      50             55             60
Met Val Ile His His Leu Glu Asp Cys Gln Tyr Ser Gln Ala Leu Lys
      65             70             75             80
Lys Val Phe Ala Gln Asn Glu Glu Ile Gln Glu Met Ala Gln Asn Lys
      85             90             95
Phe Ile Met Leu Asn Leu Met His Glu Thr Thr Asp Lys Asn Leu Ser
      100            105            110
Pro Asp Gly Gln Tyr Val Pro Arg Ile Met Phe Val Asp Pro Ser Leu
      115            120            125
Thr Val Arg Ala Asp Ile Ala Gly Arg Tyr Ser Asn Arg Leu Tyr Thr
      130            135            140
Tyr Glu Pro Arg Asp Leu Pro Leu Leu Ile Glu Asn Met Lys Lys Ala
      145            150            155            160
Leu Arg Leu Ile Gln Ser Glu Leu
      165

```

```

<210> 632
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 285, 390
<223> n = A,T,C or G

```

```

<400> 632
gcccgacgt aggtagtgtt ttgggcgggg ttctgaggcc ttgcttctct ttacttttcc 60
actctaggcc acgatgccgc agtaccagac ctgggaggag ttcagccgcg ctgccgagaa 120

```

```

gctttacctc gctgacccta tgaaggcacg tgtggttctc aaatataggc attctgatgg 180
gaacttggtg gttaaagtaa cagatgattt agtttggttg gtgtataaaa cagaccaagc 240
tcaagatgta aagaaaattg agaaattcca cagtcaacta atgcnactta tggtagccaa 300
ggaagcccg c aatgttacca tggaaactga gtgaatggtt tgaaatgaaa ctttgtcgtg 360
tacttaggaa gtaaatatct tttgaattan aaaaagtgtt gg 402

```

```

<210> 633
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 278, 387
<223> n = A,T,C or G

```

```

<400> 633
gcggagtcgg gtgggttggc ggctataaag ctggtagcga aggggaggcg ccgcggactg 60
tcctttcgtg gctcaactccc tttcctctgc tgccgctcgg tcacgcttgc tctttcacca 120
tgcttgatc acttcctttg aatgcagaag cttgctggcc aaaagatgtg ggaattgttg 180
cccttgagat ctattttctt tctcaatatg ttgatcaagc agagttggaa aaatatgatg 240
gtgtagatgc tggaaagtat accattggct tgggccangc caagatgggc ttctgcacag 300
atagagaaga tattaactct ctttgcatga ctgtggttca gaatcttatg gagagaaata 360
acctttccta tgattgcatt gggcggntgg aagttggaac ag 402

```

```

<210> 634
<211> 386
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 27, 354, 363, 368, 369, 375
<223> n = A,T,C or G

```

```

<400> 634
tgcaggtcga cactagtgga tccaaanaat tcggcacgag gctggcaaga agagacgagg 60
cccggctgtg gagcaactga accgggtgac tgtccaagc tggactccct ggtggcccag 120
cagctgcaga gcaagaatga gtgtggaatc cttgccgacc ccaaggggcc cttccgggag 180
tgccatagca agctggaccc ccagggtgcc gtgcgcgact gtgtctatga ccgctgcctg 240
ctgccaggcc agtctgggcc actgtgtgac gcaactggcca cctatgctgc tgcattgccag 300
gctgctggag ccacagtga cccctggagg agtgaagaac tttgccact tganctgcc 360
ccncacann cctatnaggcg tgttct 386

```

```

<210> 635
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<400> 635
gccaccactt cgtagtgttt tggaaacaa ccaagttaaag aaagaagata tttatgcagt 60
ggagatagtt ggtggtgcta cacgaatccc tgcggtaaaa gagaagatca gcaaattttt 120
cggtaaagaa cttagtacaa cattaaatgc tgatgaagct gtcactcgag gctgtgcatt 180
gcagtgtgcc atcttatcgc ctgctttcaa agtcagagaa ttttctatca ctgatgtagt 240

```

```

accatatcca atatctctga gatggaattc tccagctgaa gaaggggtcaa gtgactgtga 300
agtctttttcc aaaaatcatg ctgctccttt ctctaaagtt cttacatttt atagaaagga 360
accttttcaact cttgaggcct actacagctc tcctcaggat ttgc 404

```

```

<210> 636
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 321
<223> n = A,T,C or G

```

```

<400> 636
gctcactggt cccagtgcc ctgctggagc aagcctatgc tgtgcagatg gacttcaacc 60
tgctagtggg tgctgtcagc cagaacgctg ccttcctgga gcaaactctt tccagcacca 120
tcaaacagga tgactttacc gtcgtctctt ttgacatcca caagcaagtc ctaaaagagg 180
gcattgccca gactgtgttc ctgggcctga atcgctcaga ctacatgttc cagcgcagcg 240
cagatggctc cccagccctg aaacagatcg aaatcaacac catctctgcc agctttgggg 300
gcctggcctc ccggacccca notgtgcacc gacatgttct cagtgtcctg agtaagacca 360
aagaagctgg caagatcctc tctaataatc ccagcaaggg act 404

```

```

<210> 637
<211> 441
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 24
<223> n = A,T,C or G

```

```

<400> 637
agggtcgacac tagtggatcc aaanaattcg gcacgaggag agagacccta aaagcaaaaa 60
tagaagggat gacccaaagt ctgagaggtc tggaattaga tgttgttact ataaggtcag 120
aaaaagaaaa tctgacaaat gaattacaaa aagagcaaga gcgaatatct gaattagaaa 180
taataaattc atcatttgaa aatattttgc aagaaaaaga gcaagagaaa gtacagatga 240
aagaaaaatc aagcactgcc atggagatgc ttcaaacaca attaaaagag ctcaatgaga 300
gagtggcagc cctgcataat gaccaagaag cctgtaaggc caaagagcag aatcttagta 360
gtcaagtaga gtgtcttgaa cttgagaagg ctgagttgct acaaggcctt gatgaggcca 420
aaaataatta tattgtttgc a 441

```

```

<210> 638
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 324, 353, 371
<223> n = A,T,C or G

```

```

<400> 638

```

```

gcgctgccgc cgattccgga tctcattgcc acgcgcccc gacgaccgcc cgacgtgcat 60
tcccgattcc ttttggttcc aagtccaata tggcaactct aaaggatcag ctgatttata 120
atcttctaaa ggaagaacag acccccaga ataagattac agttgttggg gttggtgctg 180
ttggcatggc ctgtgccatc agtatcttaa tgaaggactt ggcagatgaa cttgctcttg 240
ttgatgtcat cgaagacaaa ttgaaggag agatgatgga tctccaacat ggcagccttt 300
tcttagaaca ccaaagattg tctntggcaa agactataat gtaactgcaa ctncagctgg 360
cattatcacg ntggggacgt cagaagaagg agaaagccgc ttat 404

```

```

<210> 639
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 368, 375, 382, 384
<223> n = A,T,C or G

```

```

<400> 639
gcatgtaccg agcaacttcgg ctccctgcgc gctcgcgtcc cctcgtgcgg gctccagccg 60
cagccttagc ttccgctccc ggcttgggtg gcgcggccgt gccctcgttt tggcctccga 120
acgcggctcg aatggcaagc caaaattcct tccgataga atatgatacc tttggtgaac 180
taaagggtgcc aaatgataag tattatggcg cccagaccgt gagatctacg atgaacttta 240
agattggagg tgtgacagaa cgcattgcaa cccagttat taaagctttt ggcattctga 300
aacgagcggc cgctgaagta aaccaggatt atggctctga tccaaaaatt gctaattgcaa 360
taatgaangc agcanatgaa gnancatgaag gtaaataaaa tgat 404

```

```

<210> 640
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<400> 640
ggccaagtca gcttcttctg agagagtctc tagaagacat gatgctacac tcagcttttg 60
gtctctgcct ctactcgtc acagtcttct ccaaccttgc cattgcaata aaaaaggaaa 120
agaggcctcc tcagacactc tcaagaggat ggggagatga catcacttgg gtacaaactt 180
atgaagaagg tctcttttat gctcaaaaaa gtaagaagcc attaatggtt attcatcacc 240
tggaggattg tcaatactct caagcactaa agaaagtatt tgcccaaat gaagaaatac 300
aagaaatggc tcagaataag ttcattcatgc taaaccttat gcatgaaacc actgataaga 360
atttatcacc tgatgggcaa tatgtgccta gaatcatggt t 401

```

```

<210> 641
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 170, 227, 252, 261, 285, 329, 341, 361, 367, 382, 386, 387,
391, 395, 401
<223> n = A,T,C or G

```

```

<400> 641
ggctcatcgc agacaccagc cgacctaccg gctttcggac catggccaac ctcgagcgta 60

```

```

ccttcattgc catcaagcca gatggcgtgc agcgcggcct ggtgggag atcatcaaac 120
gattcgagca gaaggggttc cgctggtggc catgaagtgc ctgcgggctn ttgaagaaca 180
cctgaacagc attacatcga ccctgaacga accgtccttt ctttccnggg gctggtgaaa 240
tacatgaact tnggggcat nggtggcatg ggcttgaggaa ggggntcaat ggtggtgagg 300
aaccggcccg aatgattctt ggggggaana acaaatccaa nttgatttaa aaaccaggca 360
nccattncgc ggggggattt tnttgnnttt naaanttggg nagg 404

```

```

<210> 642
<211> 366
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 26
<223> n = A,T,C or G

```

```

<400> 642
tgcaggtcga cactagtggg tccaantaat tcggcagcag gagcaaaggc acatcttaaa 60
tggcagggga actacccttg atacaaccat cagatctcat gagactcact gtcattgagaa 120
cagcagcatg ggggtaacgg ccccatgatt caattacctc ccactgagtc cctccacaga 180
catatgggga ttatgggagc tacaattcaa gatgagattt aggtggggac acagccaaac 240
catttcaata gcataacacc aaaaaagggt atagagcagt aaaagggttg atggaccatg 300
catcagtaat aataataata attataagtg atcttttaac attcatcagg tgccaagcct 360
cgtgcc 366

```

```

<210> 643
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 145, 172, 174, 186, 187, 188, 193, 199, 200, 203, 205, 206,
211, 213, 216, 218, 221, 229, 234, 239, 248, 251, 253, 256,
257, 263, 264, 269, 272, 298, 314, 336, 339, 356, 365, 370,
392, 394
<223> n = A,T,C or G

```

```

<400> 643
gtgacctgat gagacagtta attatggcca atccacaaat gcagcagttg atacagagaa 60
atccagaaat tagtcatatg ttgaataatc cagatataat gagacaaacg ttggaacttg 120
ccaggaatcc acaatgatgc agganaagat gaagaaccaa gacccaactt tnancaacct 180
aaaaannntt ccnagggggn ttannngttt nanggnctt ntccccaant ttnagganc 240
cattgttnat ngntgnncaa aannagttng gnggaaatcc ttttgtttcc ttggggganca 300
atacatcctt tggngaagggt agtcaacctt cccgtncana aattagaaat cccctnccca 360
atccttggnn tccacaaact tcccaaagtt antnagtttc cac 403

```

```

<210> 644
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> misc_feature
 <222> 117, 119, 124, 130, 131, 132, 136, 139, 141, 144, 148, 149,
 150, 155, 158, 159, 161, 163, 164, 165, 168, 169, 174, 176,
 177, 180, 183, 185, 193, 194, 199, 201, 203, 204, 209, 220,
 233, 235, 242, 248, 251, 265, 275, 282, 287, 294, 297
 <223> n = A,T,C or G

<221> misc_feature
 <222> 307, 311, 373, 378
 <223> n = A,T,C or G

<400> 644
 ggggatgaca gccctaacaa gaactgtttt tgaatcgttg tgcagctcca ggcaatagag 60
 tatgtgaagc gatttcagta gaatcactta ctcatcctaa aagaaaacat tattccnant 120
 accntccttn nnattncnt ntntaannn aaacntanng ntntnngnnt gttnannggn 180
 atnancctta aanntgcant ntntttant cctccaaatn tttttcggtt tcntntgaga 240
 ancaccanaa nctttctttc ccttntcttc agtanttgca anagganacc tcnttnnagg 300
 actggcntag ngaacgtaat ccattgctta actgccatta aacagcccca tgggtggatt 360
 tttttttttt ttngagtngg ctttccaaaa ccttgtcaaa aac 403

<210> 645
 <211> 405
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 205, 223, 262, 281, 339, 357, 369, 374, 387
 <223> n = A,T,C or G

<400> 645
 ggcgccttcca ggccgcactc cagagccaaa agagctccat ggccggcggcg gccaaagccca 60
 acaacctttc cctgggtggtg cacggaccgg gggacttgcg cctggagaac tatectatcc 120
 ctgaaccagg cccaaatgag gtcttgctga ggatgcattc tgttgaatc ttgtggctta 180
 aatgtcacta ctgggagtat gggcnaattg ggaattttat tgngaaaaac ccatgggggtt 240
 ggacatgaag ttccgacagt cnaaaaagtg ggatcatcgg naaagacctt aaaccagggtg 300
 atcggttgca tcacctgggc tcccgaaaaa tgataattnt gaagatggcc atacatntgt 360
 accttcatnt ttnttggcac ccccccnata cggaactttg cggtt 405

<210> 646
 <211> 412
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 378
 <223> n = A,T,C or G

<400> 646
 ggaacccagt gcctgcagcc atggctcccg gccagctcgc cttatttagt gtctctgaca 60
 aaaccggcct tgtggaattt gcaagaaacc tgacgcctct tgggttgaat ctggtcgctt 120
 ccggagggac tgcaaaagct ctcaaggatg ctgggtctggc agtcagagat gtctctgagt 180
 tgacgggatt tcctgaaatg ttggggggac gtgtgaaaac tttgcattct gcagtcctatg 240

```

ctggaatcct agctcgtaat attccagaag ataatgctga catggccaga cttgatttca 300
atcttataag agttgttgcc tgcaatctct atccctttgt aaagacaagt ggcttctcca 360
ggtgtaactg ttgaggangc tgtgggagca aattgacatt ggtgggagta ac 412

```

```

<210> 647
<211> 412
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 55, 56, 61, 63, 68, 79, 90, 136, 137, 159, 160, 163, 205,
219, 223, 314, 373, 384, 388, 400
<223> n = A,T,C or G

```

```

<400> 647
ggtcgcccg cgccccagcc cggccgcggc gctccccgcc tccccgctag cgcannccgc 60
ngntctgntc ggctgattnc cagctatgan acaaggagaa tgaaaatatg aagaaaaagc 120
tgaacaaaaa agttanntag ctaaaacagg acttgcagnn ttnaaaacag gtccttgatg 180
gcaaagaaga ggttgagaaa caacntagag aaaatattna aantctaaat tccatggtag 240
aacgccaaaga gaaagatctt ggccgtcttc aggtagacat ggatgaactt gaagaaaaga 300
accgaagtat tcangctgcc tggatagtgc atacaaagaa cttactgata tttacaaagc 360
caatgctgca aangatagtg aggnacanga agctgctctn accgtgaaat ga 412

```

```

<210> 648
<211> 413
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 158, 165, 181, 196, 205, 211, 220, 269, 271, 278, 279, 281,
284, 298, 300, 304, 307, 308, 311, 312, 323, 335, 346, 353,
354, 359, 382, 385, 387, 389, 391, 396, 397, 398, 399, 404
<223> n = A,T,C or G

```

```

<400> 648
ggtcgcccg cgccccagcc cggccgcggc gctccccgcc tccccgctag cgcagcccg 60
cggctctgcc cggctgccgc cgggcatgaa catcatggat ttcaacgtga agaaacttgg 120
cgggcccagc gggcaccttt tcttaagccg gcccgtnaa tttanaaaaa aaaaacttgg 180
ncaagcaaaa aaaaanaaaa ttggncccta ncttgaaaan cttcttaaca aaacttaatg 240
gtccaaaata ttgaccgaaa aaaaaatgna ncaaaccnna ntgnttttgc acccaatncn 300
aatnccnnga nnaaaaaaat tgnttattaa aaacntgaat aaaaancccc aannctatna 360
acaaccccga actttttgga cnatntntna ntgatnnng aacntaattt ggc 413

```

```

<210> 649
<211> 409
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 18, 34, 40, 281, 348, 351, 358, 365, 370, 386, 392
<223> n = A,T,C or G

```

<400> 649
 actagtggat ccaaagantt cggcacgagg gcanggtgtn cgggcgggaa ggggcacggg 60
 cccccccggt gtccctcgga ggctagagat catggaagg aagtgggtgc tgtgtatgtt 120
 actggtgctt ggaactgcta ttgttgaggc tcatgatgga catgatgatg atgtgattga 180
 tattgaggat gaccttgacg atgtcattga agaggtagaa gactcaaaac cagataccac 240
 tgctcctcct tcatctccca aggttactta caaagctcca nttccaacag gggaagtata 300
 ttttgctgat tcttttgaca gaggaactct gtcagggtgg attttatnca nagccaanaa 360
 agacnatccn atgatgaaaa ttgccnaata tnatggaaaa gtggggaggt 409

<210> 650
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 404
 <223> n = A,T,C or G

<400> 650
 ggcttgagga ccggcaacat ggtgcgggtcg gggaataagg cagctgttgt gctgtgtatg 60
 gacgtgggct ttaccatgag taactccatt cctggtatag aatccccatt tgaacaagca 120
 aagaagggtga taaccatggt tgtacagcga cagggtgtttg ctgagaacaa ggatgagatt 180
 gcttttagtcc tgttttggtac agatggcact gacaatcccc tttctggtgg ggatcagtat 240
 cagaacatca cagtgcacag acatctgatg ctaccagatt ttgatttgct ggaggacatt 300
 gaaagcaaaa tccaaccagg ttctcaacag gctgacttcc tggatgcact aatcgtgagc 360
 atggatgtga ttcacatgaa acaataggaa agaagtttga gaanaagcat att 413

<210> 651
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17
 <223> n = A,T,C or G

<400> 651
 ctagtggatc caaaganttc ggcacgaggc aaccagtgac actgcaggga gaaatgctct 60
 tcacctggct gctaagtatg gacatgcatt gtgcctacaa aaacttctac agtacaattg 120
 tcccactgag catgcagacc tgcagggaag aactgcactt cacgatgccg caatggcaga 180
 ttgtccttct agcatacagc tgctttgtga ccatggggcc tctgtgaatg ccaaagatgt 240
 agacggggcg acaccacttg ttctggctac tcagatgagt aggccaacaa tgtgtcaact 300
 gctgatagat agaggagcgg atgttaattc cagagacaaa caaacagaa ctgccctcat 360
 gctaggttgc gaatatggtt gcagagatgc agtagaagtc ttaattaaaa atgggtgctg 420
 atataagctt gctggatgcg c 441

<210> 652
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 652
 gcttctctct cctgtgcaaa atggcaactc ttaaggaaaa actcattgca ccagttgcgg 60
 aagaagaggc aacagttcca aacaataaga tcaactgtagt ggggtgttga caagttggta 120
 tggcgtgtgc tatcagcatt ctgggaaagt ctctggctga tgaacttgct cttgtggatg 180
 ttttgaaga taagcttaaa ggagaaatga tggatctgca gcatgggagc ttatttcttc 240
 agacaccta aattgtggca gataaagatt attctgtgac cgccaattct aagattgtag 300
 tggtaactgc aggagtcccg tcagcaagaa ggggagagtc ggctcaatct ggtgcagaga 360
 aatggtaatg tcttcaaatt cattattcct cagatccgca agtacagtcc tg 412

<210> 653
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 653
 gccagttcaa gtccaccctg ccggacgcgc atagggagcg cgaggccatc ctggccatcc 60
 acaaggaggc ccagaggatc gctgagagca accacatcaa gctgtcgggc agcaaccctt 120
 acaccaccgt caccocgcaa atcatcaact ccaagtggga gaaggtgcag cagctggtgc 180
 caaaacggga ccatgccttc ctggaggagc agagcaagca gcagtccaac gagcacctgc 240
 gccgccagtt cgccagccag gccaatgttg tggggccctg gatccagacc aagatggagg 300
 agatcgggcg catctccatt gagatgaacg ggaccctgga ggaccagctg agccacctga 360
 agcagtatga acgcagcatc gtggactaca aagcccaacc tggaccttgt tgga 414

<210> 654
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 654
 gcatggcgga gctgacggtg gaggttcgcg gctccaacgg ggctttctac aagggattta 60
 tcaaagatgt ccacgaagac tccctcacag ttgtttttga aaataatttg caaccagaac 120
 gccaggttcc gtttaaatgaa gtgcgattac caccaccacc tgatataaaa aaagaaatta 180
 gtgaaggaga tgaagtagag gtatattcaa gagcaaatga ccaagagcca tgtggatggt 240
 ggctggctaa agttcggatg atgaaaggcg agttttatgt cattgaatat gctgcttggt 300
 atgccactta caatgaaata gtcacatttg aacgacttcg gcctgtcaat caaaataaaa 360
 ctgtcaaaaa aaataccttc ttttaagtga cagtggatgt tcct 404

<210> 655
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 655
 gggcaagatc accattagca aatggaaatt acatttgaaa gccattagac ttataggtga 60
 tgcaagcatc taagagagag gttaatcaca ctatagaggc ataagtggta tcagttttca 120
 tttttctaatt tgtttaaact gtgttttata ccagtgtttg caagtaattg ggtgttagct 180
 tgagatggtt aaagggtggtt tggggaggga cttcgttgta atgggttttg tgtaaaaaat 240
 gtttccaact ccgctgaaat gttgctgaaa agcatggtgc tggtaacagt tcaacaatcc 300
 gtggctgctc attcttgctt actttactct cccactgaag caggtttagcg tttgaagggt 360
 gtatggaaaa cctgcatgac tgttcaattc ttttgtttct tc 402

<210> 656
 <211> 416
 <212> DNA

<213> Homo sapiens

<400> 656

```
gaatcggcac gaggtcagcc gcgaggtgtc cggcatcaag gccgcctacg aggccgagct 60
cggggatgcc cgcaagaccc ttgactcagt agccaaggag cgcgcccgcc tgcagctgga 120
gctgagcaaa gtgcgtgagg agtttaagga gctgaaagcg cgcaatacca agaaggaggg 180
tgacctgata gctgctcagg ctccggtgaa ggacctggag gctctgctga actccaagga 240
ggccgcactg agcactgctc tcagtgagaa gcgcacgctg gagggcgagc tgcattgatct 300
gcggggccag gtggccaagc ttgaggcagc cctaggtgag gccaagaagc aacttcagga 360
tgagatgctg cggcggtggt atgctgagaa caggctgcag accatgaagg aggaac 416
```

<210> 657

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 150, 153, 154

<223> n = A,T,C or G

<400> 657

```
gctccaagca gacacaatgg taagaatggt gcctgtcctg ctgtctctgc tgcgtcttct 60
gggtcctgct gtcccccagg agaaccaaga tggtcgttac tctctgacct atatctacac 120
tgggctgtcc aagcatgttg aagacgtccn cgnntttcag gcccttggct cactcaatga 180
cctccagttc tttagatata acagtaaaga caggaagtct cagcccatgg gactctggag 240
acaggtggaa ggaatggagg attggaagca ggacagccaa cttcagaagg ccagggagga 300
catctttatg gagaccctga aagacattgt ggagtattac aacgacagta acgggtctca 360
cgtattgcag ggaagggttg gtttgtgaga tcgagaataa ca 402
```

<210> 658

<211> 404

<212> DNA

<213> Homo sapiens

<400> 658

```
gcaagacgcc acttccccta tcatagaaga gcttatcacc tttcatgata acgccctcat 60
aatcattttc cttatctgct tcctagtcct gtatgccctt ttcttaacac tcacaacaaa 120
actaactaat actaacatct cagacgtcca ggaaatagaa accgttgaac tatcctgccc 180
gccatcatcc tagtctcat cgccctccca tcctacgca tcctttacat aacagacgag 240
gtcaacgata cctcccttac catcaaatac attggccacc aatgggtactg aacctacgag 300
tacaccgact acggcgggact aatcttcaac tcctacatac ttccccatt attcctagaa 360
ccaaggcgga cctgcgactc cttgacgttg acaatcgagt agta 404
```

<210> 659

<211> 411

<212> DNA

<213> Homo sapiens

<400> 659

```
ggcacgaggg tcgcggttac tccgaggaga taccagtcgg tagaggagaa gtcgaggtta 60
gaggggaactg ggaggcactt tgctgtctgc aatcgaagtt gagggtgcaa aaatgcagag 120
taataaaact tttaacttgg agaagcaaaa ccatctccaa gaaaagcatt atcaacatca 180
ccaccagcag cagcaccacc agcagcaaca gcagcagccg ccaccaccgc caatacctgc 240
```

aaatgggcaa caggccagca gccaaaatga aggcttgact attgacctga agaatttttag 300
 aaaaccagga gagaagacct tcacccaacg aagccgtctt tttgtgggaa atcttctctc 360
 cgacatcact gaggaagaaa tgaggaaact atttgagaaa tatggaaagg c 411

<210> 660
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 660
 ggcacgaggg ggatttgggt cgcagttctt gtttgtggat cgctgtgatc gtcacttaac 60
 aatgcagatc ttctgtgaaga ctctgactgg taagaccatc accctcgagg ttgagcccag 120
 tgacaccatc gagaatgtca aggcaaagat ccaagataag gaaggcatcc ctcttgacca 180
 gcagaggctg atctttgctg gaaaacagct ggaagatggg cgcaccctgt ctgactacaa 240
 catccagaaa gagtccaccc tgcacctggg gctccgtctc agagggtggga tgcaaattctt 300
 cgtgaagaca ctacttggca agaccatcac ccttgagggtc gagcccagtg acaccatcga 360
 gaacgtcaaa gcaaagatcc aggacaagga aggcattcct cctgaccagc ag 412

<210> 661
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 661
 ggcacgaggg gagatcgatg atcttgccag taatgtagag acagtgtcta aggccaaggg 60
 aaacctcgag aagatgtgcc gcaccttggg ggaccaggtg agtgagctga agtcaaagga 120
 ggaggaacag cagcgactga tcaacgacct gacaacccag agaggacgac tgcagaccga 180
 atccggtgaa ttttccaggc agcttgatga gaaggaagcg ctggtatctc agttatcaag 240
 gggcaaacag gcattcactc aacagattga ggagctaaag aggcaacttg aagagggaagt 300
 aaaggccaag aacgcgctgg cccacgcctt gcagtcctcc cgccatgact gtgacctgct 360
 gcgggaacag tacgaggagg agcaggagtc taaggctgaa ctgcagaggg c 411

<210> 662
 <211> 414
 <212> DNA
 <213> Homo sapiens

<400> 662
 ggcacgaggg tcacaggacc agccactagc gcagcctcga gcgatggcct atgtccccgc 60
 accgggctac cagcccacct acaacccgac gctgccttac taccagccca tcccgggcgg 120
 gctcaacgtg ggaatgtctg ttacatcca aggagtggcc agcgagcaca tgaagcgggtt 180
 ctctgtgaac tttgtggttg ggcaggatcc gggctcagac gtcgccttcc acttcaatcc 240
 gcggtttgac ggctgggaca aggtggtctt caacacgttg cagggcgagg agtggggcag 300
 cgaggagagg aagaggagca tgcccttcaa aaagggtgcc gcctttgagc tgggtcttcat 360
 agtcctggct gagcactaca aggtggtggt aaatggaaat cccttctatg agta 414

<210> 663
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 140, 167, 214, 320, 339, 391, 406

<223> n = A,T,C or G

<400> 663

```
gcggcgctcc ttccctcctcg gctcgcgtct cactcagtgt accttctagt cccgccatgg 60
ccgctctcac ccgggacccc cagttccaga agctgcagca atggtaccgc gagcaccgct 120
ccgagctgaa cctgcgccgn ctcttcgatg ccaacaagga ccgcttnaac cacttcagct 180
tgaccctcaa caccaaccat gggcatatcc tggnggatta ctccaagaac ctggtgacgg 240
aggacgtgat gcggatgctg gtggacttgg ccaagtccag gggcgtggag gccgaccggg 300
agcggatgtt caatggtgan aagatcaact acacccgang gtcgagccgt gctgcacgtg 360
gctctgcgga accggttcaa acacacccat nctgggagac ggcaangatg tgat 414
```

<210> 664

<211> 411

<212> DNA

<213> Homo sapiens

<400> 664

```
ggcacgagggc ttagatgccg tgccatgctc cacaaccatc aacaggaacc gcatgggccc 60
agacaagaag agaacccttc ccctttgctt tgatgacat gaccagctg tgatccatga 120
gaacgcatct cagcccaggg tgctgggtccc catccgctgg acatggagat cgatgggcag 180
aagctgcgag acgccttcac ctggaacatg aatgagaagt tgatgacgcc tgagatgttt 240
tcagaaatcc tctgtgacga tctggatttg aacccgctga cgtttgtgcc agccatcgcc 300
tctgccatca gacagcagat cgagtcctac cccacggaca gcatcctgga ggaccagtca 360
gaccagcgcg tcatcatcaa gctgaacatc catgtgggaa acatttcctt g 411
```

<210> 665

<211> 409

<212> DNA

<213> Homo sapiens

<400> 665

```
ggcacgaggg cgaatcgag cttctgagac caggggttget ccgtccgtgc tccgcctcgc 60
catgacttcc tacagctatc gccagtcgtc ggccacgtcg tccttcggag gcctgggcgg 120
cggctccgtg cgtttttgggc cgggggtcgc ttttcgcgcg cccagcattc acgggggctc 180
cggcgggcgc ggcgatccg tgtcctccgc ccgctttgtg tcctcgtcct cctcgggggg 240
ctacggcgcg ggctacggcg ggcctcctgac cgcgtccgac gggctgctgg cgggcaacga 300
gaagctaacc atgcagaacc tcaacgaccg cctggcctcc tacctggaca aggtgcgcgc 360
cctggagggc gccaacggcg agctagaggt gaagatccgc gactggtac 409
```

<210> 666

<211> 411

<212> DNA

<213> Homo sapiens

<400> 666

```
ggcacgaggt gagctgaacc aagaaggagg aggggggtcgg gcctccgagg aaggcctagc 60
tgctgctgct gccaggaatt ccaggttgga gggggcgga cctcctgcca gccttcaggc 120
cactctcctg tgccctgccg aagagacaga gcttgaggag agcttgaggga gagcaggaaa 180
gcagcctccc ccgttgcccc tctggatcca ctgcttaaat acggacgagg acagggccct 240
gtctcctcag cttcaggcac caccactgac ctgggacagt gaatcgacaa tgccgtcttc 300
tgtctcgtgg ggcacccctc tgctggcagg cctgtgctgc ctggtccctg tctccttggc 360
tgaggatccc cagggagatg ctgcccagaa gacagataca tcccaccatg a 411
```

<210> 667

10025380-10025394

<211> 412
 <212> DNA
 <213> Homo sapiens

<400> 667
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 gccctaaaag aatttaaatt ggagagagaa gttgttgaga aagagttatt agaaaaagtt 180
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 caacttgaag agcaagaaaa aagaaagaat gaagaaatgc aaaatgttcg aacatctttg 360
 attgcggaac aacagaccaa ttttaacact gttttaacaa gagagaaaat ga 412

<210> 668
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14, 26, 28, 29, 34, 59, 66, 71, 85, 86, 87, 88, 100, 124,
 128, 129, 130, 138, 145, 154, 155, 157, 160, 162, 173, 179,
 186, 189, 190, 191, 198, 199, 200, 201, 206, 218, 219, 221,
 223, 230, 244, 252, 258, 259, 275, 282, 289, 298, 300
 <223> n = A,T,C or G

<221> misc_feature
 <222> 301, 303, 308, 309, 313, 316, 317, 318, 320, 323, 324, 334,
 349, 350, 353, 355, 359, 363, 364, 368, 373, 381, 382, 383,
 399, 402, 403, 406, 407
 <223> n = A,T,C or G

<400> 668
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<210> 669
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 669
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 gatggaactt gaagtggcag agagaaaatt atccttccat aatctgcagg aagaaatgca 180
 tcatctttta gaacagtttg agcaagcagg ccaagcccag gctgaactag agtctcggtta 240
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 aaagcttctc caagataaga atgaacaggc agttcagtca gccagacca tt 412

<210> 670
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 154, 352, 373
 <223> n = A,T,C or G

<400> 670
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 caaccaagag gtgcaaaaac gaaagcaact ggagctcagg caggagggaag ancgcaggcg 360
 ccgtgaagaa ganatgcggc ggacagcaaga agaaatgatg cggcgacagc a 411

<210> 671
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 160
 <223> n = A,T,C or G

<400> 671
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 cgaccccttt gctgatgcaa ctaagggtga cgacttactn ccggcaggga ctgaggatta 180
 cattcatata agaatccagc aacggaacgg cagaaagaca ctgactactg ttcaggatcat 240
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 aaaaaacatc tgccagtttc tcttgagggt tggcattgta aaggaggaac a 411

<210> 672
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 672
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 gaaaaattat aaccaagcat aatatagcaa ggactaacc cttataccttc tgcataatga 180
 attaactaga aataactttg caaggagagc caaagctaag acccccgaaa ccagacgagc 240
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 aggtagaggc gacaaaccta ccgagcctgg tgatagctgg ttgtccaaga tagaatctta 360
 gttcaacttt aaatttgccc acagaaccct ctaaatcccc ttgtaaatt 409

<210> 673

<211> 412
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16, 26, 30, 44
 <223> n = A,T,C or G

<400> 673
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 cggcgcgcgt ttctgcgacc tggccgctcag cccacgctcg ccggcctgga ggggcaaaga 120
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 gaactgatcc agacagacag cctggctcct tagaagttaa tgggaacaaa gtaaggaaga 360
 aactgatggc cccagacatc agcctgaccc tggatcctgg tgaagactct ct 412

<210> 674
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 391
 <223> n = A,T,C or G

<400> 674
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<210> 675
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 167, 183, 316, 381
 <223> n = A,T,C or G

<400> 675
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 gcagctagct caaataaagg agatggtgga gctgccactg agacatnctg cgctctttaa 180
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1005380-10901

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<210> 676
<211> 413
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 56, 143, 173, 210, 267, 270, 350, 378, 389
<223> n = A,T,C or G

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<210> 677
<211> 410
<212> DNA
<213> Homo sapiens

<400> 677
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<210> 678
<211> 410
<212> DNA
<213> Homo sapiens

<400> 678
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<210> 679
<211> 410
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 353
 <223> n = A,T,C or G

<400> 679
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<210> 680
 <211> 410
 <212> DNA
 <213> Homo sapiens

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 ggggaagatct tccagctcca caggaagtga agttggaggt caaagcactg 410

<210> 681
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 681
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<210> 682
 <211> 401
 <212> DNA
 <213> Homo sapiens

<400> 682
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401

<210> 683

<211> 3255

<212> DNA

<213> Homo sapiens

<400> 683

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<211> 2993

<212> DNA

<213> Mus musculus

<400> 684

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<212> PRT
<213> Homo sapiens

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Ala Arg Ile Glu Lys Ala Tyr Ala Gln Gln Leu Thr Glu Trp Ala Arg
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Arg Trp Arg Gln Leu Val Glu Lys Gly Pro Gln Tyr Gly Thr Val Glu
65          70          75          80
Lys Ala Trp Met Ala Phe Met Ser Glu Ala Glu Arg Val Ser Glu Leu
          85          90          95
His Leu Glu Val Lys Ala Ser Leu Met Asn Asp Asp Phe Glu Lys Ile
          100          105          110
Lys Asn Trp Gln Lys Glu Ala Phe His Lys Gln Met Met Gly Gly Phe
          115          120          125
Lys Glu Thr Lys Glu Ala Glu Asp Gly Phe Arg Lys Ala Gln Lys Pro
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Trp Ala Lys Lys Leu Lys Glu Val Glu Ala Ala Lys Lys Ala His His
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Ala Ala Cys Lys Glu Glu Lys Leu Ala Ile Ser Arg Glu Ala Asn Ser
          165          170          175
Lys Ala Asp Pro Ser Phe Asn Pro Glu Gln Leu Lys Lys Leu Gln Asp
          180          185          190
Lys Ile Glu Lys Cys Lys Gln Asp Val Leu Lys Thr Lys Glu Lys Tyr
          195          200          205
Glu Lys Ser Leu Lys Glu Leu Asp Gln Gly Thr Pro Gln Tyr Met Glu
          210          215          220
Asn Met Glu Gln Val Phe Glu Gln Cys Gln Gln Phe Glu Glu Lys Arg
          225          230          235          240
Leu Arg Phe Phe Arg Glu Val Leu Leu Glu Val Gln Lys His Leu Asn
          245          250          255
Leu Ser Asn Val Ala Gly Tyr Lys Ala Ile Tyr His Asp Leu Glu Gln
          260          265          270
Ser Ile Arg Ala Ala Asp Ala Val Glu Asp Leu Arg Trp Phe Arg Ala

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1005330-1005330

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 Thr Asp Gly Phe Thr Leu Thr Gly Ile Asn Gln Thr Gly Asp Gln Phe
 325 330 335
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 340 345 350
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 355 360 365
 Asp Thr Gly Ser Thr Val Ser Glu Lys Glu Asp Ile Lys Ala Lys Asn
 370 375 380
 Val Ser Ser Tyr Glu Lys Thr Gln Ser Tyr Pro Thr Asp Trp Ser Asp
 385 390 395 400
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 405 410 415
 Asn Pro Phe Asp Asp Ala Thr Ser Gly Thr Glu Val Arg Val Arg
 420 425 430
 Ala Leu Tyr Asp Tyr Glu Gly Gln Glu His Asp Glu Leu Ser Phe Lys
 435 440 445
 Ala Gly Asp Glu Leu Thr Lys Met Glu Asp Glu Asp Glu Gln Gly Trp
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 Cys Lys Gly Arg Leu Asp Asn Gly Gln Val Gly Leu Tyr Pro Ala Asn
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 Pro Val Lys Asn Tyr Gln Ile His His Leu Gln Phe Gln Gln Thr Thr
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<220>
 <223> PCR primer

<400> 688
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<210> 689
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<220>
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<400> 689
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<210> 690
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 <212> DNA
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1005380-11901

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<210> 691
 <211> 2265
 <212> DNA
 <213> Homo sapiens

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<212> PRT
<213> Homo sapiens

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Val Asn Glu Leu Leu Leu Gly Met Ala Ser Gln Ile Ser Glu Leu Glu
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65 70 75 80
Lys Phe Ser Arg Thr Asp Tyr Val Ala Ser Ser Ile Gln Arg Gly Arg
85 90 95
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Glu Leu Leu Leu Gly Gly Leu Leu Glu Ser His Gly Asp Pro Gly Pro
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10025360 "124901

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			325						330					335		
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			340					345					350			
Gln	Gln	Val	Asn	Leu	Ile	Leu	Ser	Asn	Asn	Arg	Gly	Cys	Arg	Thr	Leu	
	355					360					365					
Leu	Leu	Lys	Ile	Pro	Lys	Glu	Tyr	Asp	Leu	Val	Leu	Leu	Phe	Ser	Ser	
	370				375						380					
Glu	Glu	Glu	Arg	Gly	Ala	Phe	Val	Gln	Gln	Leu	Trp	Asp	Phe	Cys	Val	
385					390					395					400	
Arg	Trp	Ala	Leu	Gly	Leu	His	Val	Ala	Glu	Met	Ser	Glu	Lys	Glu	Leu	
			405						410					415		
Phe	Arg	Lys	Ala	Val	Thr	Lys	Gln	Gln	Arg	Glu	Arg	Ile	Leu	Glu	Ile	
			420					425					430			
Phe	Phe	Arg	His	Leu	Phe	Ala	Gln	Val	Leu	Asp	Ile	Asn	Gln	Ala	Asp	
		435					440					445				
Ala	Gly	Thr	Leu	Pro	Leu	Asp	Ser	Ser	Gln	Lys	Val	Arg	Glu	Ala	Leu	
	450					455					460					
Thr	Cys	Glu	Leu	Ser	Arg	Ala	Glu	Phe	Ala	Glu	Ser	Leu	Gly	Leu	Lys	
465					470					475					480	
Pro	Gln	Asp	Met	Phe	Val	Glu	Ser	Met	Phe	Ser	Leu	Ala	Asp	Lys	Asp	
			485						490					495		
Gly	Asn	Gly	Tyr	Leu	Ser	Phe	Arg	Glu	Phe	Leu	Asp	Ile	Leu	Val	Val	
		500						505					510			
Phe	Met	Lys	Gly	Ser	Pro	Glu	Asp	Lys	Ser	Arg	Leu	Met	Phe	Thr	Met	
	515						520					525				
Tyr	Asp	Leu	Asp	Glu	Asn	Gly	Phe	Leu	Ser	Lys	Asp	Glu	Phe	Phe	Thr	
	530					535					540					
Met	Met	Arg	Ser	Phe	Ile	Glu	Ile	Ser	Asn	Asn	Cys	Leu	Ser	Lys	Ala	
545					550					555					560	
Gln	Leu	Ala	Glu	Val	Val	Glu	Ser	Met	Phe	Arg	Glu	Ser	Gly	Phe	Gln	
			565						570					575		
Asp	Lys	Glu	Glu	Leu	Thr	Trp	Glu	Asp	Phe	His	Phe	Met	Leu	Arg	Asp	
			580					585					590			

His Asp Ser Glu Leu Arg Phe Thr Gln Leu Cys Val Lys Gly Gly Gly
 595 600 605
 Gly Gly Gly Asn Gly Ile Arg Asp Ile Phe Lys Gln Asn Ile Ser Cys
 610 615 620
 Arg Val Ser Phe Ile Thr Arg Thr Pro Gly Glu Arg Ser His Pro Gln
 625 630 635 640
 Gly Leu Gly Pro Pro Ala Pro Glu Ala Pro Glu Leu Gly Gly Pro Gly
 645 650 655
 Leu Lys Lys Arg Phe Gly Lys Lys Ala Ala Val Pro Thr Pro Arg Leu
 660 665 670
 Tyr Thr Glu Ala Leu Gln Glu Lys Met Gln Arg Gly Phe Leu Ala Gln
 675 680 685
 Lys Leu Gln Gln Tyr Lys Arg Phe Val Glu Asn Tyr Arg Arg His Ile
 690 695 700
 Val Cys Val Ala Ile Phe Ser Ala Ile Cys Val Gly Val Phe Ala Asp
 705 710 715 720
 Arg Ala Tyr Tyr Tyr Gly Phe Ala Leu Pro Pro Ser Asp Ile Ala Gln
 725 730 735
 Thr Thr Leu Val Gly Ile Ile Leu Ser Arg Gly Thr Ala Ala Ser Val
 740 745 750
 Ser Phe Met Phe Ser Tyr Ile Leu Leu Thr Met Cys Arg Asn Leu Ile
 755 760 765
 Thr Phe Leu Arg Glu Thr Phe Leu Asn Arg Tyr Val Pro Phe Asp Ala
 770 775 780
 Ala Val Asp Phe His Arg Trp Ile Ala Met Ala Ala Val Val Leu Ala
 785 790 795 800
 Ile Leu His Ser Ala Gly His Ala Val Asn Val Tyr Ile Phe Ser Val
 805 810 815
 Ser Pro Leu Ser Leu Leu Ala Cys Ile Phe Pro Asn Val Phe Val Asn
 820 825 830
 Asp Gly Ser Lys Leu Pro Gln Lys Phe Tyr Trp Trp Phe Phe Gln Thr
 835 840 845
 Val Pro Gly Met Thr Gly Val Leu Leu Leu Leu Val Leu Ala Ile Met
 850 855 860
 Tyr Val Phe Ala Ser His His Phe Arg Arg Arg Ser Phe Arg Gly Phe
 865 870 875 880
 Trp Leu Thr His His Leu Tyr Ile Leu Leu Tyr Ala Leu Leu Ile Ile
 885 890 895
 His Gly Ser Tyr Ala Leu Ile Gln Leu Pro Thr Phe His Ile Tyr Phe
 900 905 910
 Leu Val Pro Ala Ile Ile Tyr Gly Gly Asp Lys Leu Val Ser Leu Ser
 915 920 925
 Arg Lys Lys Val Glu Ile Ser Val Val Lys Ala Glu Leu Leu Pro Ser
 930 935 940
 Gly Val Thr Tyr Leu Gln Phe Gln Arg Pro Gln Gly Phe Glu Tyr Lys
 945 950 955 960
 Ser Gly Gln Trp Val Arg Ile Ala Cys Leu Ala Leu Gly Thr Thr Glu
 965 970 975
 Tyr His Pro Phe Thr Leu Thr Ser Ala Pro His Glu Asp Thr Leu Ser
 980 985 990
 Leu His Ile Arg Ala Val Gly Pro Trp Thr Thr Arg Leu Arg Glu Ile
 995 1000 1005
 Tyr Ser Ser Pro Lys Gly Asn Gly Cys Ala Gly Tyr Pro Lys Leu Tyr
 1010 1015 1020

Leu Asp Gly Pro Phe Gly Glu Gly His Gln Glu Trp His Lys Phe Glu
 1025 1030 1035 1040
 Val Ser Val Leu Val Gly Gly Gly Ile Gly Val Thr Pro Phe Ala Ser
 1045 1050 1055
 Ile Leu Lys Asp Leu Val Phe Lys Ser Ser Leu Gly Ser Gln Met Leu
 1060 1065 1070
 Cys Lys Lys Ile Tyr Phe Ile Trp Val Thr Arg Thr Gln Arg Gln Phe
 1075 1080 1085
 Glu Trp Leu Ala Asp Ile Ile Gln Glu Val Glu Glu Asn Asp His Gln
 1090 1095 1100
 Asp Leu Val Ser Val His Ile Tyr Val Thr Gln Leu Ala Glu Lys Phe
 1105 1110 1115 1120
 Asp Leu Arg Thr Thr Met Leu Tyr Ile Cys Glu Arg His Phe Gln Lys
 1125 1130 1135
 Val Leu Asn Arg Ser Leu Phe Thr Gly Leu Arg Ser Ile Thr His Phe
 1140 1145 1150
 Gly Arg Pro Pro Phe Glu Pro Phe Asn Ser Leu Gln Glu Val His
 1155 1160 1165
 Pro Gln Val Arg Lys Ile Gly Val Phe Ser Cys Gly Pro Pro Gly Met
 1170 1175 1180
 Thr Lys Asn Val Glu Lys Ala Cys Gln Leu Val Asn Arg Gln Asp Arg
 1185 1190 1195 1200
 Ala His Phe Met His His Tyr Glu Asn Phe
 1205 1210

<210> 693
 <211> 277
 <212> PRT
 <213> Homo sapiens

<400> 693
 Met Ala Tyr Gln Asp Leu His Ser Glu Ile Thr Ser Leu Phe Lys Asp
 1 5 10 15
 Val Phe Gly Thr Ser Val Tyr Gly Gln Thr Val Ile Leu Thr Val Ser
 20 25 30
 Thr Ser Leu Ser Pro Arg Ser Glu Met Arg Ala Asp Asp Lys Phe Val
 35 40 45
 Asn Val Thr Ile Val Thr Ile Leu Ala Glu Thr Thr Ser Asp Asn Glu
 50 55 60
 Lys Thr Val Thr Glu Lys Ile Asn Lys Ala Ile Arg Ser Ser Ser Ser
 65 70 75 80
 Asn Phe Leu Asn Tyr Asp Leu Thr Leu Arg Cys Asp Tyr Tyr Gly Cys
 85 90 95
 Asn Gln Thr Ala Asp Asp Cys Leu Asn Gly Leu Ala Cys Asp Cys Lys
 100 105 110
 Ser Asp Leu Gln Arg Pro Asn Pro Gln Ser Pro Phe Cys Val Ala Ser
 115 120 125
 Ser Leu Lys Cys Pro Asp Ala Cys Asn Ala Gln His Lys Gln Cys Leu
 130 135 140
 Ile Lys Lys Ser Gly Gly Ala Pro Glu Cys Ala Cys Val Pro Gly Tyr
 145 150 155 160
 Gln Glu Asp Ala Asn Gly Asn Cys Gln Lys Cys Ala Phe Gly Tyr Ser
 165 170 175

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<210> 694
<211> 157
<212> DNA
<213> Homo sapiens

<400> 694
aaatataaat gatatgttga aaacttaagg aagcaaatgc tacatatatg caatataaaa 60
tagtaatgtg atgctgatgc tgtaaccaa agggcagaat aaataagcaa aatgccaaaa 120
gggtcttaa ttgaaatgaa aatttaattt tgttttt 157

<210> 695
<211> 241
<212> DNA
<213> Homo sapiens

<400> 695
ctggcccgcac ctctggcctc ctcttccctg gctgaatgta aatatttacc agcatttaga 60
aaaaaggaga aaaaagacag aactaaaccg gttaggaaa aaggggaccga gggacagcag 120
tggttaagta atccactgag gacctgaagg ggaaaatgga cttacctttc tcatatactt 180
ggcctggcta ggacactggg tgccagacag ccttctgagg ggattttctt tctaaatgag 240
g 241

<210> 696
<211> 188
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 11, 29, 30, 59, 62, 165
<223> n = A,T,C or G

<400> 696
gcccatgatg ncagagctgg aagagaggnn acgtcagcag agggggccacc tccatttgnt 60
gnagacaagc atagatggga ttctggctga tgtgaagaac ttggagaaca ttagggacaa 120
cctgccccca ggctgctaca ataccaggc tcttgagcaa cagtnaagct gccataaata 180
tttctcaa 188

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<210> 697
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 50, 86, 207
 <223> n = A,T,C or G

<400> 697
 ctgcttggac ttcaaagccc tccgcctagc catctcagcc aggctcaggn tccttctccc 60
 acccatcagg ccaagcagga cttgtnaaac atacacattc aagttcctag cacacagtag 120
 gtgctaagtg ggaattgatt ataaacttga attcttccat caacaaatat ctacctctcc 180
 tgtccagctt gcctcagatc ttcaggntct ctcttctctg aggcagctaa gcttctacat 240
 ccttcatgaa gtttccttta cttctcgaca gaagacagtt ccctttagg 289

<210> 698
 <211> 193
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 171
 <223> n = A,T,C or G

<400> 698
 aaagtttgtg ctataaaatt gtgcaaatat gttaaggatt gagacccacc aatgcactac 60
 tgtaatatat cgcttcctaa atttcttcca cctacagata atagacaaca agtctgagaa 120
 actaaggcta accaaactta gatataaatc ctaccaataa aatttttcag ntttaagtgt 180
 tacagtttga ttt 193

<210> 699
 <211> 279
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 60, 126
 <223> n = A,T,C or G

<400> 699
 ccttcccccc ccttccttat gagttctaac ttagtaattt caaatgtgac cttttatatn 60
 taagaccagt atagtaaact tagcccacag tggcaaataa tgagtaatat tgtaatatgt 120
 tccagnggga taccctcctt gtcttgaatt ttggctttga cattctcaat ggtgtcactg 180
 ggctcgacct caagggtgat ggttttgcca gtgagggtct tcacaaagat ctgcatgttt 240
 gcgtccgcac gaccgccgcc accaaccagc tcggccgcc 279

<210> 700
 <211> 340
 <212> DNA
 <213> Homo sapiens

$\langle 220 \rangle$

<221> misc_feature
 <222> 13, 42, 43, 74, 89, 179, 210, 216
 <223> n = A,T,C or G

<400> 703
 cctgtttgga ggngctgctc gaaaggggttt gccctgagac tnnaagaaga agctgcggga 60
 aggacagcag gggncctggg gtttttagcnt ctggcccagg agttatgtgt ccataaccaa 120
 agggagcaca gtctgcaccc agctctcatc ccacgggagc tgctgcgact cccgcaggnt 180
 cttccggaac tggtttagct tgcccgcagn atcagnaaag ttg 224

<210> 704
 <211> 445
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 251, 313, 392, 427
 <223> n = A,T,C or G

<400> 704
 aggtaaaaag cagcctgggc aagagaagtg ggtgggttta ggagaatccc tttcgaaaaa 60
 ttcagagcat tattattaat ctttcttaa tttaatgcag ggccaagcat gctgcacgtg 120
 gaatctggac aattttttga taaactttta ggctgctaaa taatttacag aaactgtgaa 180
 tgcattttca ttttacgagg caaaagagaa aatattcaag attgcatagc aattttat 240
 tttgaaatgg ntatcctaaa gaatttcctt aaattcagat tttgcaaaat tcctactctc 300
 caagtcatca agngaacact aaaagcaact ttactcgtga atacagggga ctctttacga 360
 ggcatgcatt tttcataaat ctaggccaaa gngaactaat tgagatttaa ttctaaattc 420
 atcctgngat ttctgcatat aatat 445

<210> 705
 <211> 107
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8, 29, 32, 46, 47, 54, 62, 70, 91, 102, 103
 <223> n = A,T,C or G

<400> 705
 atcacccnat ttaattaaaa atccctggnc tnaggaccta cagcanngta ctgnagaact 60
 tnagaacctn aattagccat ttgccatctt nagagagtct tnnccat 107

<210> 706
 <211> 113
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22, 105
 <223> n = A,T,C or G

TTGTTTGGT


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tcatcaacat tggcattggc ggctccgacc tgggacccct catggngact gaagccctta 300
agtcatactc ttcaggaggn ccccgcgact gggatgnctc caacattgat ggaactcaca 360
ttgccaaaac cctggc 376

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<210> 710
<211> 232
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 42, 52, 62, 79, 83, 106, 134
<223> n = A,T,C or G

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<400> 710
ctgctgtata ttcagcattg tgggaggagc tgtgaaagac anagaacagt anaggggtgtg 60
gnccctgccc tcgagaggnt tanagtctag gtggagaaac ggaancagg acacatgggg 120
agccgagaga aaanagtcca ggccagtatg ttacaggagc tggaagggtg ttgggggtcag 180
acccaatac tccaagtaca ctaagcactt cagtgcctcc agggggtcaa cg 232

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<210> 711
<211> 317
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 227
<223> n = A,T,C or G

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<400> 711
caggtaaaat agatttaatt taggaaagct cattttatat gagtttccaa ctaattatta 60
gagtcagaaa caaagaaaaa aaaatcagag aaaatcctct gtagaaaaaa tacacaaaga 120
acatttctac atgtgaaaaa acagtaaaca gtgttaacat ccaagttatt agtctcaatt 180
ccacgtctcc tagtgaacac cactatcaac cttgagatct gatttgntct tgtcattctt 240
cactgagtag atgaaatatg ttaagggtgc tttttcattc actggaatag acctaaagtg 300
gcaaccaact atctcaa 317

```

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<210> 712
<211> 154
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 2, 16, 30, 33, 55, 108, 130
<223> n = A,T,C or G

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<400> 712
tntgtagaaa aaatanacaa agaacatttn tanatgtgaa aaaacagtaa acagngttaa 60
catccaagtt attagtctca attccacgtc tcttagtgaa caccactntc aaccttgaga 120
tctgatttgn tcttgtcatt cttcactgag taga 154

```

```

<210> 713

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<220>
 <221> misc_feature
 <222> 59, 74, 77
 <223> n = A,T,C or G

<400> 716
 aaacttttta tttgcatatt aaaaaaattg tgcattccaa taattaaaat catttgaana 60
 aaaaaaaaat ggcncntntga ttaaactgca ttacag 96

<210> 717
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 104, 224, 233, 343
 <223> n = A,T,C or G

<400> 717
 gatggaaagg atacagatga catcaagatc cccatgctgt tcttattcag caaagaagga 60
 agtatcatac tggatgccat ccgggaatat gaggaggtag aagngctcct ctctgataaa 120
 gcaaaagatc gagatcctga aatggaaaat gaagaacaac catcctctga aaatgattct 180
 cagaatcaga gtggtgaaca gatttcatca agttctcagg aggntgattt ggntgatcaa 240
 gagtcttctg aggaaaattc tctaaattct caccagaat cattatctct agcagatatg 300
 gacaatgctg caagcatttc cccttctgaa cagacttcta atnccacaga aaaccatgag 360
 actaca 366

<210> 718
 <211> 200
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17
 <223> n = A,T,C or G

<400> 718
 aaacatctca catatanaaa ataggtacaa ttttaattttt ctgcttgccc aagaaacaaa 60
 gcttctgtgg aaccatggaa gaagatgaaa atgagactgg caaagaacaa atgctgaatc 120
 tgaagaagat ttgggcaaat aatctgcata cttttaattg ggaataagat ggaaaatatg 180
 aatgctaaat caaatttttt 200

<210> 719
 <211> 336
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 71, 260, 314
 <223> n = A,T,C or G

<400> 719
 ctgtctcaca ctttgcaagc tgtgagagac acatcagagc cctgggcact gtcactgctt 60
 gcagcctgag ngtaactccc tccttttcta tctgagctct tcctcctcca catcacggca 120
 gcgaccacag ctccagtgat cacagctcca aggagaacca ggccagcaat gatgcccacg 180
 atggggatgg tgggctggga agacagctcc catctcaggg tgaggggctt gggcagaccc 240
 tcatgctgca catggcaggn gtatctctgc tcctctccag aaggcaccac cacagccgcc 300
 cacttctgga aggntccatc cccttgacag ccttgg 336

<210> 720
 <211> 167
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31, 46, 47
 <223> n = A,T,C or G

<400> 720
 ggagagtgtc agtgaggcgg ccaagaagta natggaggag aatgannagc tcaagaaggg 60
 agctgctgtt gacggaggca agttggatgt cgggaatgct gaggtgaagt tggaggaaga 120
 gaacaggagc ctgaaggctg acctgcagaa gctaaaggac gagctgg 167

<210> 721
 <211> 134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 39, 56, 102
 <223> n = A,T,C or G

<400> 721
 cctagtatat ggagcgttat ggagtggaag tgaaatcana tggctaggcc ggaggncatt 60
 aggagggctg agagggcccc tgtaggggt catgggctgg gntttacgtg cgtgaggagg 120
 ggcggagctt gcag 134

<210> 722
 <211> 353
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 214, 290, 299
 <223> n = A,T,C or G

<400> 722
 aaaaatatat acaactatga tgttcaaata tgtattctga gccattatgt tcaaacataa 60
 atatctggga aattcaaact gctgcaacaa gttaggaaag gattaaggaa aaatgatgag 120
 ctacaaatta tgtagttgga ggaagaaaaa aatgttactt agcatttatg tctggatagg 180
 tatgtatatt ctaatttaca tacacatatc cagntgagta tagacaacca tcaaaatgta 240
 accagttaca cagagactag actaagccaa cactattttc tataacaggn aacagtagng 300

atttcaaaaa ttttaatatc tcaatagttt caccaaaaat tatttatggg aat 353

<210> 723
<211> 268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 67, 124, 156, 208, 241, 261
<223> n = A,T,C or G

<400> 723
ctgagaagag cgccaggaag ccctgggtgc gagagttgat gacgtcgatc tcgtgcaggg 60
acacggngtg caccacctcc ttgcgtttct ggagctcccc atctgggcac tgcacgaact 120
tggngctggga gcccatagcg tcgtagtcgc gggcngtgt gaaggagcgg cccaacttgg 180
agatcttgcc cgtcgccttg tcgatggnga tcacgtcccc ggccctggacc ttgtccttgg 240
ncagggactc aatcatcttg ntgccag 268

<210> 724
<211> 344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 63, 191, 201
<223> n = A,T,C or G

<400> 724
aaagaatcag caaaatttca aataaaaaat tatgaaaata ttatcctcat tagttcattt 60
agncccatga aattaattat tttctctgct cgatcttggt ggacagtttc atgaagctgt 120
cagttagttc attaaagttt tggaaattct cagacagtgc agtggatatca gaaacttgta 180
ttcaagagta naggtcagag ncttcttttc ttttctttt gagatggagt cttgctctgt 240
tgccagactg gagtgcagtg gtgcgatctg ggctcactgc aatctccacc tcccgggttc 300
aagcgattct cctgcctcag cctcccgagt aactgggact acag 344

<210> 725
<211> 345
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 32, 90, 179, 223, 306, 339, 340
<223> n = A,T,C or G

<400> 725
aaacaagaga aagtagacag atacatgttg gnaaatgcta actgtccata ttcacataga 60
gacacagtgt actctctgag cccaatatan agagaaaaga ggaaaaaagc tagaattcta 120
tgcaactact cacaggggcc tagcaccctc cagcttcag cagagcgaag ggagcaggnt 180
tttctttttt cccacagagc tcgggggggtt gattccatac agnttttggt cagacaggaa 240
gggataaaaa tgaacttcga acagaaaggg gtagagactc ttttccatt gtattctgct 300
caaggnattt ccccccaat aaattgagaa ccatggagnn gagaa 345

<210> 726
 <211> 305
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 112, 118, 187, 284
 <223> n = A,T,C or G

<400> 726
 ttgcctgatg tcagagcccc tccacacatg agcctgctcc ctactgcca caccgtggcc 60
 cagacagaga cgctttccga ggaagaggtg aagctcctgc agtcgctgaa gnaagganag 120
 cagatcgtga ggaaaaaggg cgccgaggtt gggggcatgt ctctcttctt accaagctag 180
 actgggntgc cttttctaac tattccagcc ctacaggcg agggggccata atggagtatc 240
 ccgccccctt agaccccagg cgctcaccgg cagggcaaga agngaaatc cagcagccgc 300
 gccag 305

<210> 727
 <211> 387
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 131, 151
 <223> n = A,T,C or G

<400> 727
 ccaacgaggc atcacctctg acggtgtcag tcatcgatga ccggctcaag gagaagatgg 60
 tgggtgagtt ccgccacatg aggaaccatg cctatgagcc actcgccagc ttcctagact 120
 tcattactta nagttacatg atcgacaacg ngatcctgct catcacaggc acgctgcacc 180
 agcgtccatc cgctgagctc gtgcccagt gccaccact aggcagcttc gagcagatgg 240
 aggccgtgaa cattgctcag acacctgctg agctctacaa tgccattctg gtggacacgc 300
 ctcttgcggc tttttccag gactgcattt cagagcagga ccttaacgag atgaacatcg 360
 agatcatccg caacaccctc tacaagg 387

<210> 728
 <211> 109
 <212> DNA
 <213> Homo sapiens

<400> 728
 ctgactgaca gccagattgc agatgtggct cgcttttgta accgctaccc taatatcgaa 60
 ctatcttatg aggtggtaga taaggacagc atccgcagtg gcggggccag 109

<210> 729
 <211> 329
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 247, 281, 304

<223> n = A,T,C or G

<400> 729

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aaagcatagg actatagtca gcatgctaga ctgagaggta aacactgatg caattagaac 60
aggtactgat gctgtcagtg ttttaacacta tgtttagctg tgtttatgct ataaaagtgc 120
aatattagac actagctagt actgctgcct catgtaactc caaagaaaac aggatttcat 180
taagtgcatt gaatgtggct atttctctaa gttactcata ttgtcctttg cttgaatgca 240
atgccgngca gatttatgtg gctgctattt ttattttctg ngcattactt taacacctta 300
aagngagaag caaacatttc cttcttcag 329
```

<210> 730

<211> 238

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 67, 204

<223> n = A,T,C or G

<400> 730

```
aaaaagtggc agagtgaactt aactgatcat gcatgatccc tcatccctga aattgagttt 60
atgtagncat tttacttatt ttattcatta gctaactttg tctatgtata tttctagata 120
ttgattagtg taatcgatta taaaggatat ttatcaaadc cagggattgc attttgaaat 180
tataattatt ttctttgctg aagnattcat tgtaaaacat acaaaataaa catatattt 238
```

<210> 731

<211> 297

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 202, 254

<223> n = A,T,C or G

<400> 731

```
aaactgaatt ttttgacctt ggaaaatatt tttottactt taccaagggtg aagtttcctt 60
aattagacta attatattat ccccatccca gggataaac aggaattggt ttgatagtgg 120
tggagttatt cactgcaaca aagcaacaat gttgtccatg attcaaaadc taagcagttt 180
cgattttgcc tgtgaatatg gngtctgtca ttcagggcat agctcactgt aggctagcct 240
ctgcttactt aagncctctt tctgacatac tcaatggaag aatattttaga tttattt 297
```

<210> 732

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 88, 104, 131, 184

<223> n = A,T,C or G

<400> 732
 ctgtcagtct tcctgaaatg aagaaactac accagggtctg ctatatcaga gcaaccccaa 60
 ccagcactcc aatcatgatg ccgacagnng cccaattag aagntcaaaa acaaaaatta 120
 agttaggttag ncagacatct ataaatacta gtatccgcat gaatgaaaac accctggctt 180
 tggnatggct acagaaatcc atctggaaat tattcaaaag gacgtgggtc agggaaaagg 240
 gggtaggcag ggcattgggg gaggggaaca caaaaaacc ccaagcagag gtaaaatgaa 300
 tattggaaca caccgcagc aaacactgta catagacttg aggcagatgc ctctaacaca 360
 acacatatat 370

<210> 733
 <211> 242
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 129
 <223> n = A,T,C or G

<400> 733
 cctcctatit attctagcca cctctagcct agccgtttac tcaatcctct gatcagggtg 60
 agcatcaaac tcaaaactag ccctgatcgg cgcactgcga gcagtagccc aagcaatctc 120
 atatgaagnc accctagcca tcattctact atcaacatta ctaataagtg gtccttttaa 180
 cctctccacc cttatcacia cacaagaaca cctctgatta ctctgccat catgaccctt 240
 gg 242

<210> 734
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 154, 188, 311
 <223> n = A,T,C or G

<400> 734
 cctttcttgt aagtgaagaa aaaggaatgc agcaaagaag agttcgacat tggagtcctt 60
 agttccatca ggatcccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
 gctgagatag gtgcaatgac ctacaagatt ttgngttttc tagctgtcca ggaaaagcca 180
 tcttcagnct tgctgacagt caaagagcaa gtgaaacat ttccagccta aactacataa 240
 aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgcc 300
 aaactcattg ngacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
 ttacatgg 368

<210> 735
 <211> 308
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 92, 101, 120, 216, 279
 <223> n = A,T,C or G

```
<400> 735
ctgtccaata ggcgtagcta tccggacaga gcacgtttgc agaaggggga ctcttcttcc 60
aggtagctga aaggggaaga cctgacgtac tntggttagg ntaggacttg ccctcgtagg 120
ggaaactttt cttaaaaagt tataaccaac ttttctatta aaagtgggaa ttaggagaga 180
aggtaggggt tggaatcag agagaatggc tttggnctct tgcttgtggg actagcctgg 240
cttgggacta aatgccctgc tctgaacacg aagcttagna taaactgatg gatatcccta 300
ccttgaaa                                         308
```

```
<210> 736
<211> 354
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 57  
<223> n = A,T,C or G
```

<400> 736						
ccttctgcta	cgtagtctac	aacagaagga	ttcaggcaat	tacctctgcc	atgcgngnga	60
acatgggttc	atacaaactc	ttcttaaggt	aaccctggaa	gtcattgaca	cagagcattt	120
ggaagaactt	cttcataaag	atgatgatgg	agatggctct	aagaccaaag	aaatgtccaa	180
tagcatgaca	cctagccaga	aggtctggta	cagagacttc	atgcagctca	tcaaccaccc	240
caatctcaac	acgatggatg	agttctgtga	acaagtttgg	aaaagggacc	gaaaacaacg	300
tcggcaaagg	ccaggacata	ccccaggga	cagtaacaaa	tgaagcact	taca	354

```
<210> 737
<211> 198
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 59, 184  
<223> n = A,T,C or G
```

<400> 737						
ctgccgctgc	acacgctcgt	tcttctctgc	ctcagtgatg	cgcttctcct	cattgcggnc	60
atcccggatg	ccctcactag	acagctccgc	gctgtagccc	gtgggctctg	cgccctcatc	120
ctgcaagctc	tcttgacat	ggtagctcac	cggtcgtac	acggggggtg	gtgggggchg	180
ggngctgtgc	atcaccag					198

```
<210> 738
<211> 228
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 36, 93, 202, 221  
<223> n = A,T,C or G
```

<400> 738

gtgccatggc acacagcctg ggtgcacacc cagcgnccctc tcttgcaggt gcaggtattg 60
 cagtcacact tgatcttggc gccggaagaa tanaggctgt tgttatggac gcaagggcat 120
 tccttctcca ccacgcagcc accccggccg tcatccatca gcccgtcggg gcacacacag 180
 ccactgacac actctgtgtg gnaatagccg gcggccagcg nctggcag 228

<210> 739
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 124, 136, 169, 200, 230, 233, 247, 332, 339
 <223> n = A,T,C or G

<400> 739
 aaaaaatata ggagtcgata gcagcagttg gtgacgagat ggcaactcaga aacggcggtt 60
 acgtaattta ggacgtggaa tcataagcga aacagcacac tgtttgaata aagagcgagt 120
 cggnatttat atttgnnttt cttttgtcat gattatttga tttttaagnt gctccagcta 180
 aggcattttt ttgtattagn atttctatta gggaaccttt cttattaggn ggnttgtatt 240
 gtctggnntc taacatgcag gtagctgttt ggcaagttaa cacgtttaga gtaatttgag 300
 ttacaacgtg tgaaactgag caaaaaagca gngataagnt tgggttacca taccaaatat 360
 ttgttttccc actggaaa 378

<210> 740
 <211> 200
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 95
 <223> n = A,T,C or G

<400> 740
 ccacttgagt ggntcctggc tgcttctgtg attgttaggt cttgagagat tatggacccg 60
 aggcattctg ggtaccccat caattggctg atggncttct atttgggctg cgcttcttct 120
 aaaaagggga gctcaaaggc ctttttttcc ccactgcag agctaaaaaa gtccctgtac 180
 gccatcttct ccagtttgg 200

<210> 741
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 741
 ctgcttggca tcgtaatggg ccggtggcat catgagcccc agaatacagc ttgccaggctc 60
 tccagagatc tcagacttca ggtcagtcac taagtcgccg ccaaagttag acttgaaggc 120
 ctgccggatc tgctgccgct ggacattgct gcggtgcgtg atgatatcga tgattgtgtc 180
 ttctgcagtc ccgagtcctt tcatggcttt ccgcagcgct ttggcatctg cgtcagggtt 240
 gaagtcattg gctgggcgca caggctccct cag 273

<210> 742
 <211> 297

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 89, 188, 264, 266
<223> n = A,T,C or G

<400> 742
ctgcagttgc tcccttttagg gttataaaat aatgacccaa atgttacatg tgttgatatt 60
ataacttgtc agttactgat gtctgtgna tcctaccctc atctctgaaa gggataatac 120
tgaataatta ttagaaaact ataaaacttc acactttgta ccattaaaac ctaaaatttt 180
aatcttgnc ttttttacta tggatcagtc ggcactcggg aacagcagca aggaaaagag 240
gcaaatttca ttcacatggt ctgngntcat acctcttctc tacctaattg ttcattt 297

<210> 743
<211> 381
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 240, 243, 252, 291, 305, 321, 324, 327, 342
<223> n = A,T,C or G

<400> 743
ctgcacctcc acctccttga agttgaagat actattgcca tcaaagccag cagccagctc 60
tggacagtat gcctgcaggg aacctccatg cgggctcagt gacacactct ctgcagccag 120
ggtaatgaac ttgtcctcag ctacaaaagc tgtgagcttg gctgtgctca cctccagggt 180
taggttttagc agccgctttg ggggtaattg ctcaggggca cggccttcta gctcagaagn 240
agntcctgaa gntcttagtg caagggatgg tacagtctca ggaaacacag nggctcttag 300
taggnctcgg cactgtagag nggngnatc cccagagctg gngatgattt ggttgatc 360
caggaagcgg caacacgaca g 381

<210> 744
<211> 167
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 6, 78
<223> n = A,T,C or G

<400> 744
cagcgnngggg ctcggagagg tgctcggatt ctgtagctg tgccgggact taaccaccac 60
catgtcgagc aaaagaanaa agaccaagac caagaagcgc cctcagcgtg caacatccaa 120
tgtgtttgct atgtttgacc agtcacagat tcaggagttc aaagagg 167

<210> 745
<211> 96
<212> DNA
<213> Homo sapiens

10025320-1901

<400> 745
ccacaaactc ctctggctgt actccctcct gcaggagacc ggccctcactg cactcagcag 60
gctctttctcc ctgcgattca cttctggggac agtcac 96

<210> 746
<211> 391
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 257
<223> n = A,T,C or G

<400> 746
ccattacgca gccgcttcag caaacagggc tcctcccggc ccgagggcgg gaccacagtg 60
gccgtcagca ggctgagatc cgtctctgag atgttgatgg ggatgtcggc agcagagccg 120
acctttaggt gggacatacg catggagtcg tcacctgtga cccgggcagt gaaggggctg 180
cctgggacgt gctgttcatt gtacttgact agaatgctgt agtcccccg cagcacaggc 240
aagtaggaca cgctgcnatg tcccatcctg gttgtcagt cagtgttgct tgttcagtat 300
ctcaagccca gaaagatgaa ttaatccttg aaggaaatga cattgagctt gtttcaaatt 360
cagcggtttt gattcagcaa gccacaacag t 391

<210> 747
<211> 408
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 71, 233, 367
<223> n = A,T,C or G

<400> 747
aaagtgtgtt gtgccttttt atttttgttt ttaatgcttt gatatttcaa tgttagcctc 60
aatttctgaa naccataggt agaatgtaaa gcttgtctga tcgttcaaag catgaaatgg 120
atacttataat ggaaattctg ctcagataga atgacagtcc gtcaaaacag attgcttgca 180
aaggggaggc atcagtgtcc ttggcaggct gatttctagg taggaaatgt ggnagcctca 240
cttttaaatga acaaattggc tttattaaaa actgagtgac tctatatagc tgatcagttt 300
tttcacctgg aagcatttgt ttctactttg atatgactgt ttttcggaca gtttatttgt 360
tgagagngtg accaaaagtt acatgtttgc acctttctag gtgaaaat 408

<210> 748
<211> 337
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 34, 63, 224, 302
<223> n = A,T,C or G

<400> 748
ggcggagaga ggcgagcacc ggggaagggga gcgnggggcc gctggaatgg gtgaatttaa 60

```
<210> 749
<211> 261
<212> DNA
<213> Homo sapiens
```

<400>	749					
ccgggagggt	ctgattat	ttt acccaccaca	ggtagg	gttctgaatc	tcagggttcac	60
agggttaaggc	tacagcatcc	tcatcctcca	cgggggttga	gttggttgctg	gngatgaagg	120
gtttgggtgg	ctctgcatag	actgtgatcg	ncgtgactgt	ggncctattg	aggccagtgt	180
ctgagttatg	ggcttggcac	gtataggatc	cactattatt	cacagnatg	ttggggataa	240
agagctcttg	ggnggattgc	t				261

```
<220>  
<221> misc_feature  
<222> 9, 56, 57, 146, 148, 149  
<223> n = A,T,C or G
```

```
<210> 751
<211> 288
<212> DNA
<213> Homo sapiens
```

```

<400> 751
aaaactttttg ttaagaaaaa ctgccagttt gtgcttttga aatgtctgtt ttgacatcat 60
agtctagtaa aattttgaca gtgcatatgt actgttacta aaagctttat atgaaattat 120
taatgtgaag nttttcattt ataattcaag gaaggatttc ctgaaaacat ttcaagggat 180
ttatgtctac atatttgtgt gtgtgtgtgt gtatataatat gtaatatgca tacacagatg 240
catatgtgta tatataatga aattttatgtt gctggnatTT tgcatttt 288

```

```
<210> 755
<211> 405
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> 214, 305, 366, 368, 378
 <223> n = A,T,C or G

<400> 755
 tgtgggcccc cttcccaaat ctctggagga tctgcagctt actcataaca agatcacaaa 60
 gctgggctct tttgaaggat tggtaaacct gaccttcac catctccagc acaatcggct 120
 gaaagaggat gctgtttcag ctgcttttaa aggtcttaaa tcaactcgaat accttgactt 180
 gagcttcaat cagatagcca gactgccttc tggncctcct gtctctcttc taactctcta 240
 cttagacaac aataagatca gcaacatccc tgatgagtat ttcaagcgtt ttaatgcatt 300
 gcagnatctg cgtttatctc acaacgaact ggctgatagt ggaataacct gaaattcttt 360
 caatgngnca tccctggntg agctggatct gtcctataac aagct 405

<210> 756
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 112, 157, 186, 271
 <223> n = A,T,C or G

<400> 756
 ccttgggaaa ttacctggaa atgcgactga aatcttcctt cctgaggggt ctgggctctt 60
 ggaaatcaaa ccctctcagg ttgggtggct ggacgattct cctcacactt anaatgggac 120
 aagggggaacc aggaggcccc caaggggatc cctgggntcc acacgaactc ctccctaccct 180
 cattgngtga cagcagccat gcctcctcct ggggatcagg atctattacc tgtgcctgga 240
 gaggagggga ctccctcttt caccgcgtgg nctctggaca catactgtcc aattccccctg 300
 tggcag 306

<210> 757
 <211> 321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 46, 65, 79, 92, 127, 180, 186, 204, 208, 235, 275
 <223> n = A,T,C or G

<400> 757
 ctggagggag gntccctggg aggtttttgt ggattccttc tgcagngact cccctggttt 60
 ctggnctctg ggaccagng tccaggcgca gnttttttagc acttctcagt gtagacgttg 120
 acagggntct tttcccgctt gaatcctgct gagtcccaa atctcttgac ttgtcttgg 180
 tacagnacc accagagctg ctncagntt tgacaaaagc agttgctgct gaagngatcg 240
 ttttgaatcc tatcatagca ctggcaggtc ccggnaaatt cttacagtca gcaggcggac 300
 ctggtgtgag ttgaatattc c 321

<210> 758
 <211> 278
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 54, 111, 149, 220, 226, 273

<223> n = A,T,C or G

<400> 758

```
cgctcggcaa gntctcccag gagaaagcca tgttcagttc gagcgccaag atcntgaagc 60
ccaatggcga gaagccggac gagttcgagt ccggcatctc ccaggctctt ntggagctgg 120
agatgaactc ggacctcaag gctcagctna gggagctgaa tattacggca gctaaggaaa 180
ttgaagttgg tggtagtcgg aaagctatca taatctttgn tcccgnctct caaacctgcc 240
cgggcggccg cttcgagccc tatagtggag cgnattag 278
```

<210> 759

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 268, 301, 318, 321, 333, 367

<223> n = A,T,C or G

<400> 759

```
gcaaactgca aaccatggtg agaaattgac gacttcacac tatggacagc ttttcccaag 60
atgtcaaaac aagactcctc atcatgataa ggctcttacc cccttttaat ttgtccttgc 120
ttatgcctgc ctctttcgct tggcaggatg atgctgtcat tagtatttca caagaagtag 180
cttcagaggg taacttaaca gagtatcaga tctatcttgc caatcccaac gttttacata 240
aaataagaga tccttttagtg caccagnga ctgacattag cagcatcttt aacacagccg 300
ngtgttcaaa tgtacagngg nccttttcag agntggactt ctgactcac ctgtttctac 360
tcctgnttt aattcaacct agccatgcaa tgccaaataa t 401
```

<210> 760

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 278, 335

<223> n = A,T,C or G

<400> 760

```
ccgaggtttg gatcatggga gaacagcaga aaggggttat tgagggaacc tacactgttc 60
tagctgcacc ccatgccctt ctgagaggaa agcctggcat tgattagata ctgggcccaga 120
ctaatactgg cagcagagcc agtgatagta acctgcctac cagaggagcc ttccactggg 180
ttggcaattt tgatctgggc cccggacatc tggcggatct cattaatgtt ggcgcccttg 240
cgcccgatta tgcagccaat taagttatct ggaatggnga gttcatgggt gggttgagta 300
gatgcatcca aacttgccca atagcctttc acctntggag agacct 346
```

<210> 761

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 159, 185, 196

<223> n = A,T,C or G

<400> 761

```
gagacagact gggatgatgac gctgaatctg cagaggtgct ggtgaccaat tcccctaaag 60
catctacttg tctcctcaaa ctgtgtaaag tgccctctgt ctgccgcttt cctttaatta 120
atacttctgc ttgcttggac atacagtgtc ggagttggnc ctgaaaagtg tgataagact 180
taggnnttta cacagnaaga aatgtaccag aactgctgct cagcttcctc acatacattt 240
gataggcaaa tctagc 256
```

<210> 762

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 39, 162

<223> n = A,T,C or G

<400> 762

```
tggactctgg antgatgctg gaagtagata cgaaaatgng aagaacaatg gaacagcaca 60
ctttctggag catatggctt tcaagggcac caagaagaga tcccagttag atctggaact 120
tgagattgaa aatatgggtg ctcatctcaa tgcctatacc tncagagagc agactgtata 180
ctatgccaaa gcattctcta aagacttgcc aagagctgta gaaattcttg ctgatataat 240
acaaaacagc acattgggag aagcagagat tgaacgtgag cgtggagtaa tccttagaga 300
gatgcaggaa gttgaaacca a 321
```

<210> 763

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 52, 66, 114, 127, 144, 152, 177, 200, 214, 261, 331

<223> n = A,T,C or G

<400> 763

```
tgagaaaaca taaagtaacc agcagatttc aatattaaaa agaagtgggt cntcctaaaa 60
aaggtnnttag atcatagagt tgggattagg gtaggggata cctattaatc tggnctggaa 120
aaaaagngtg tggagaaggg gagntgtatt gntttctcac aagaggcaaa cttcagncaa 180
acaatgaaga gatagtaggn agggagatgt gtgntagacc aaagactttc tgattgctga 240
taataacaaa tttagcagct ntctacaagt caattaaaaat accattctct gagacatttt 300
cagagaggag ctaactaaca cccacccagg nggaaaaatc attctaca 348
```

<210> 764

<211> 374

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 59, 111, 129, 132, 198, 204, 242, 288, 327
 <223> n = A,T,C or G

<400> 764
 agcnaagaag gaagctcctg cccctcctaa agctgaagcc aaagcgaagg ctttaaagnc 60
 caagaaggca gcgttgaaag gtgtccacag ccacaaaaag aagaagatcc ncacgtcacc 120
 caccttccng cngccgaaga cactgcgact ccggagacag cccaaatata ctcggaagag 180
 cgctcccagg agaaacangc ttgnccacta tgctatcatc aagtttccgc tgaccactga 240
 gnctgccatg aagaagatag aagacaacaa cacacttggtg ttcattnngg atgttaaagc 300
 caacaagcac cagattaaac aggtgngaa gaagctgtat gacattgatg tggccaaggt 360
 caacaccctg attc 374

<210> 765
 <211> 288
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 181
 <223> n = A,T,C or G

<400> 765
 aaatacaata attctgttat tgataaaatt taaggcattt tcattgcctt ttgcagattt 60
 actcataact acctaacaag gaaagaaggt ataattattt cagattggat tattttattct 120
 aaaattaaat tcttactaa tttattctaa gatgaattta atagtccatc aggaaattgg 180
 nttttataaa gcttatttta tgggcataaa atacaggaaa aggtaataat aaatgccaaa 240
 ccgtctcttt actttatgaa gccaaatatt tcctcagact tgggtttt 288

<210> 766
 <211> 424
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 337
 <223> n = A,T,C or G

<400> 766
 ttgtggttgt gcctgagggc tctgcttccg aactcatga acaggctatc ttgcggttgc 60
 aagtcaccaa tgttctgtct cagcctctga ctacggccac tgttaaacta gaacatgcta 120
 aatctgttgc ttccagagcc actgtcctcc agaagacatc cttcacccct gtaggggatg 180
 tttttgaact aaatttcatg aacgtcaaat tttccagtgg ttattatgac ttcttgtcgc 240
 aagttgaagg tgacaaccgg tatattgcaa ataccgtaga gctcagagtc aagatctcca 300
 ctgaagttgg catcacaagt gttgatcttt ccaccngga taaggatcag agcattgcac 360
 ccaaaactac ccgggtgaca tacgcagcca aagccaaggg cacattcatc gcagacagcc 420
 acca 424

<210> 767
 <211> 302

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 203
<223> n = A,T,C or G

<400> 767
ggctttctca ataagcctca gctttctaag atctaacaag atagccaccg agatccttat 60
cgaaactcat tttaggcaaa tatgagtttt attgtccgtt tacttgtttc agagtttgta 120
ttgtgattat caattaccac accatctccc atgaagaaa ggaacgggtga agtactaagc 180
gctagaggaa gcagccaagt cgnttagtgg aagcatgatt ggtgcccagt tagcctctgc 240
aggatgtgga aacctccttc caggggaggt tcagtgaatt gtgtaggaga ggttgtctgt 300
gg 302

<210> 768
<211> 94
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 62, 63, 73, 86
<223> n = A,T,C or G

<400> 768
ctgatctaaa agaagttact gaggaagatt tgaataatca ctttaagtct ttgggaagca 60
gnnatttgaa atnttgaggt gacagncttt taag 94

<210> 769
<211> 69
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 36, 40, 53
<223> n = A,T,C or G

<400> 769
ctgcaagacg actccaaccc aacaacaacc agatgngctn cagcccagcc ggncttcagt 60
tccatattt 69

<210> 770
<211> 222
<212> DNA
<213> Homo sapiens

<400> 770
ctgaacgcaa accagccact ttaattaagc taagccctta ctagaccaat gggacttaaa 60
cccacaaaca cttagttaac agctaagcac cctaataaac tggcttcaat ctacttctcc 120
cgccgccggg aaaaaaggcg ggagaagccc cggcagggtt gaagctgctt cttcgaattt 180
gcaattcaat atgaaaatca cctcggagct ggtaaaaaga gg 222

<210> 771
 <211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 262
 <223> n = A,T,C or G

<400> 771
 ctgctttccc tcctatggct cccctggaac aggagggaga gccaaagggg cggccagcc 60
 tggacagcgc ccgctcctgc ctgggtgcac acacggcggg cctgagctcc agcatctgag 120
 tttgggggta tgagaaacag gggagcagaa ggagaagaaa actgcctgtg ctgcaacacg 180
 tttcctcatt tattttttct ttctttttct ttttttcttt ttttggaggg agaggtccct 240
 gcaaggtccc ttcccgggca gnggagggat ggaaatgccg tcacagtagt agggactgga 300
 gcgtctacaa ggatggaggg gagctactca gg 332

<210> 772
 <211> 194
 <212> DNA
 <213> Homo sapiens

<400> 772
 aaaagaaaga tcaattatat ccatgcttaa caggatcagc aggagcttta taaatgactt 60
 tacagagact aataagggat ttgatctttc tttttttgtt atcgaggctt ttgaaatgtg 120
 gaacttgtgt gttctgcttt atatgttata ttcaatatct tttcagatgc agtctatatt 180
 ttatgctgag tttt 194

<210> 773
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 773
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagtcca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgattatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tc 272

<210> 774
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 18, 42, 45, 94, 95, 114, 117, 125, 143, 154, 198, 207, 222,
 245, 258, 287
 <223> n = A,T,C or G

<400> 774

```

gtgtcttgta cagttagnta tattagcagc cctctgagat gncgnatcta tcggaaggat 60
ttcaaacacc aattgcttta cctgaacaaa tggnncttac cctttgaaca gcanagnagac 120
cacgnagaag gaaggaaaag ggnaaaatcg cttnagttaa actgaaatta aatgaacaat 180
aaggcaacta tataagtnac ttctagnagc attgcctgag anacaaatta ttgtttgata 240
attnncattg tgaatagnaa tccaatagat catattgctt actttgntct ttttatacta 300
tagaataata tttt                                     314

```

```

<210> 775
<211> 207
<212> DNA
<213> Homo sapiens

```

```

<400> 775
cctgacagag ctacagctcac actgggaagt gtggatgcag ggtgcccttc cctaccccag 60
tgagaaggaa gattccttac ccattcttgc tccccccag ggaagatcat catgcacgac 120
ccatttgcca tgcggccctt ttttggttac aacttcgggc actacctgga acactggctg 180
agcatggaag ggcgcaaggg ggcccag                                     207

```

```

<210> 776
<211> 196
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 37, 65, 100, 128, 139, 140
<223> n = A,T,C or G

```

```

<400> 776
gtgaacggag gcactgtggc cgagaagctg gactggncgc gcgagaggct tgagcagcag 60
gtacntgtga accaagtgtt tgggcaggat gagatgatcn acgtcatcgg ggtgaccaag 120
ggcaaagnct acaaagggnn caccagtcgt tggcacacca agaagctgcc ccgcaagacc 180
caccgaggac ctcggc                                     196

```

```

<210> 777
<211> 325
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 55, 218, 239
<223> n = A,T,C or G

```

```

<400> 777
aaagttgaac taagattcta tcttggacaa ccagctatca ccaggctcgg taggnntgtc 60
gcctctacct ataaatcttc ccactatitt gctacataga cgggtgtgct cttttagctg 120
ttcttaggta gctcgtctgg tttcgggggt cttagctttg gctctccttg caaagttatt 180
tctagttaat tcattatgca gaaggtatag gggttagncc ttgctatatt atgcttgnt 240
ataatttttc atctttccct tgcggtacta tatctattgc gccaggtttc aatttctatc 300
gcctatactt tatttgggta aatgg                                     325

```

```

<210> 778
<211> 421

```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 147, 191, 228, 231, 233, 280, 366, 384
<223> n = A,T,C or G

<400> 778
ccaaaagaag taagacagct tgctgaagat ttcctgaaag actatattca tataaacatt 60
ggtgcacttg aactgagtgc aaaccacaac attcttcaga ttgtggatgt gtgtcatgac 120
gtagaaaagg atgaaaaact tattcgncta atggaagaga tcatgagtga gaaggagaat 180
aaaaccattg nttttgtgga aaccaaaga agatgtgatg agcttacnca nanaaatgag 240
gagagatggg tggcctgccca tgggtatcca tggtgacaan agtcaacaag agcgtgactg 300
ggttctaaat gaattcaaac atggaaaagc tcctattctg attgctacag atgtggcctc 360
cagagngcta gatgtggaag atgngaaatt tgtcatcaat tatgactacc ctaactcctc 420
a 421

<210> 779
<211> 330
<212> DNA
<213> Homo sapiens

<400> 779
ctgaactttc cgcttacgct gccagagct gccaggtgta gactgagaat tcgagttttg 60
tttcttcctt ggggttgtat ctgcagcctt ttctccctgg gactccctgt ctgctgccaa 120
tggagttgaa gaactggaat gatgacacag ctctctctct cttattttct ttgctggcct 180
ctccggtgtc tgggagcggg aggaggcttg ggctagagaa ggggtgatgaa ctggggccat 240
ttctcttcca gagctgtgag atgcctcgag tggagctgta ggaactggta atggcattgc 300
ggctggagct agggatgccca cttgcgtaag 330

<210> 780
<211> 279
<212> DNA
<213> Homo sapiens

<400> 780
gagaggtaga gtttttttct tgatagtggg tcaactggata agtggcggtt gcttgccatg 60
attgtgaggg gtaggagtca ggtagttagt attaggaggg ggggttgttag ggggtcggag 120
gaaaagggtt ggggaacagct aaataggttg ttgttgattt ggttaaaaaa tagtagaggg 180
atgatgctaa taattaggct gtgggtgggt gtgttgattc aaattatgtg ttttttggaa 240
agtcattgtc gtggtagtaa tataattgtt gggacgatt 279

<210> 781
<211> 323
<212> DNA
<213> Homo sapiens

<400> 781
ttgatcttct gcaggaaggt gcagcttttc catatcagct caaccacgcc gccagtccat 60
tcttaaggaa ctgccgacta ggactgatga tgcattttag ctttgagctt ttgggggtta 120
ttctaaccac aacagtccta ttggaagaa aacagtcctt ggaattaaca gattagaatg 180
ttcacactgg ttaattcttt ttaacaatg agcatgaagg tagcagaagc tgggtgtgtt 240
ccagatgggt cttctaacca aactaatttt tcaactgttg caagcgaggc aagggttgca 300

ctggaccaaa ggctgaggct tgg

323

<210> 782

<211> 264

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 47, 69, 195, 262

<223> n = A,T,C or G

<400> 782

```
ttctagcttt gccctcactc cccggaaaaa ctgacactga cacaggngct ctttccttgc 60
ccctttagnt ggtacctcag tggggaggct tccttaccaa gaatgagttc ctgaaaccca 120
gggccagaga caaggacaac ttaggggaag acgggggttt cggaggagcc aggggcaa 180
cttaatggga ccagnggggg ataccccaga gcccatggcc tgactgcaca gcctgcctgg 240
aggatgggtg cgcagttctg cnct 264
```

<210> 783

<211> 159

<212> DNA

<213> Homo sapiens

<400> 783

```
ctgtgtgaag ggcacagtgg tgcaggctct cctgtggact agacgtccca gtcttgcctt 60
tcctttgata atgcagtaag ggacccccat ttacgacac agggcaggca agaagacaac 120
cagctcgatg ggatccacgt cgtgtgcaat caccaccag 159
```

<210> 784

<211> 128

<212> DNA

<213> Homo sapiens

<400> 784

```
ctcgccctc ttacaccatt ttgtttgatt gtctagtccc tgtttctttt tctttcta 60
ccttattcat ttaagcaaaa ccatacatta tcttttcag tcctttcttg tattcttact 120
gttttttt 128
```

<210> 785

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 142, 323, 325, 330

<223> n = A,T,C or G

<400> 785

```
ctgggctgat gctggaactc gtagaagtac acaggggccc gggaacactg aaaatgtgct 60
acttgagtg cagggatcac aaacatggag tccgcatca tctcctggaa ctgcgcttgg 120
agggtctggg gatccccatt gncoccaatg tactoctccc tcagcaggtc accaaatgta 180
ggaggcaaca tcagcagcgt taacattttc tgcagagcag cctgggaggc ctctctgtcc 240
```


<400>	789					
cctaagtaaa	tgaagagctg	taccatattc	atgtattgga	agacaacatt	gtaaagatga	60
catggtttac	cagatttaatc	tataaattca	atacaaatcc	aatcaaaatt	tcaatgctct	120
tgggtttgtt	tgatttataa	attgttggtc	taattctaga	agtaatatgg	aggaacagtt	180
qgctaagaat	agccaagaca	ctncaaggaa	qaacaattttt	qtggnqatac	tqgaqacaga	240

```

ggtgaaattg gttacaatta tgacaaaatg tggaggcatc ttgggttttta tcagaccttt 300
tcctaaagtt gcaataatca ggactgtact gtactgctac aagattagac aaattgatgt 360
cagtcagaat agaaatcatc aa                                     382

```

```

<210> 790
<211> 273
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 61, 96, 108, 129, 130, 184, 216
<223> n = A,T,C or G

```

```

<400> 790
ggatccgcta cacagtttct gccagtcctt gagttgatgc cttttcggct aactcgccag 60
nttatcaatc tgatgttacc aatgaaagaa acggttctta tgtacagnat catggtacac 120
gcactccggn ccttccgctc agaccctggc ctgctcacca acaccatgga tgtgtttgtc 180
aagnagccct ccttttgatt gaaaaatttt gaacanaaaa tgctgaaaaa aggaggggtc 240
tggattcaag aaataaatgt tgctgaaaaa aat                                     273

```

```

<210> 791
<211> 344
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 100
<223> n = A,T,C or G

```

```

<400> 791
aaagaatcag caaaatttca aataaaaaat tatgaaaata ttatcctcat tagttcattt 60
agtcccatga aattaattat tttctctgct tgatcttggg ggacagtttc atgaagctgt 120
cagtttagttc attaaagttt tggaaattct cagacagtgc agtggtatca gaaacttgta 180
ttcaagagta caggtcagag ccttcttttc ttttcttttt gagatggagt cttgctctgt 240
tgccagactg gagtgcagtg gtgcgatctg ggctcactgc aatctccacc tcccgggttc 300
aagcgattct cctgcctcag cctcccaggt aactgggact acag                                     344

```

```

<210> 792
<211> 227
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 97, 215
<223> n = A,T,C or G

```

```

<400> 792
gacaaacctg aaattgaaga tgttggttct gatgaggaag aagaaaagaa ggatggtgac 60
aagaagaaga agaagattaa ggaaaagtac atcgatnaag aagagctcaa caaaacaaag 120
cccatctgga ccagaaatcc cgacgatatt actaatgagg agtacggaga attctataag 180
agcttgacca atgactggga agatcaattg gcagngaagc atttttc                                     227

```

<210> 793
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 793
 aaacaagtca tttttcttga tcgttgtgga aggtttggag ccttagaggt atgtcagaaa 60
 aaatatgttg gtattctccc ttgggtaggg ggaaatgacc tttttacaag agagtgaat 120
 ttaggtcagg gaaaagacca agggccagca ttgctacttt tgtgtgtgtg tgtgggtttt 180
 gttttgtttt tttgggttggc cgggttgtttt cgttgttgtt aacaaaggaa tgagaatatg 240
 taatacttaa ataaacatga ccacgaagaa tgctgttctg atttactaga gaatgttccc 300
 aatttgaatt tagggtgatt ttacctgc 328

<210> 794
 <211> 290
 <212> DNA
 <213> Homo sapiens

<400> 794
 ccagcgagca catgaagcgg ttcttcatga actttgtggt tgggcaggat ccgggctcag 60
 acgcgcctt ccaacttcaat ccgcgggtttg acggctggga caaggtgggc ttcaacacgt 120
 tgcaggcggg gaagtggggc agcgaggaga ggaagaggag catgcccttc aaaaagggtg 180
 ccgcctttga gctgggtcttc atagtctctg ctgagcacta caaggtgggtg gtaaatggaa 240
 atcccttcta tgagtacggg caccggcttc ccctacagat ggtcacccac 290

<210> 795
 <211> 343
 <212> DNA
 <213> Homo sapiens

<400> 795
 aaaatcaaag aaatccttgt tttgaaaatt ggatcttaat ctcaaaattg tagaacttgg 60
 ctgagaccat tgcttttcatt ttgaaaatga acttcaactc cagaaagacc agtgtgtgct 120
 ctgccaataa aatttctgag tcacagtcct actaggaatg tgcaaatcaa agcatatggt 180
 ggtgtaaaatt cttttgaagt ccttgccaag ataataatg gcatttacat ttgctttttt 240
 ctttaataaaa aattccacca ttttcacttt tcttcgactc acagcaagta acagtggctg 300
 atattcattc ttgctgcatt cttcaatatt tgtacatgt gaa 343

<210> 796
 <211> 354
 <212> DNA
 <213> Homo sapiens

<400> 796
 tggcggggccg ctgaataagc ttccaaaatg atgccacac cagttattct attgaaagag 60
 gggactgata gctcccaagg catccccag cttgtgagta acatcagtgct ctgccagggtg 120
 attgctgagg ctgtaagaac taccctgggt ccccgtagga tggacaagct tattgtagat 180
 ggcagaggca aagcaacaat ttctaattgat ggggccacaa ttctgaaact tcttgatggt 240
 gtccatcctg cagcaaagac tttggtagac attgccaaat cccaagatgc tgagggtgggt 300
 gatggcacca cctcagtgac cttgctggct gcagagtttc tgaagcagac ctgc 354

<210> 797
 <211> 309

<212> DNA

<213> Homo sapiens

<400> 797

```
ctgtgccgtc tgcttgagcc catggatgct ttctcaatcc taggctggtt actgtgtaag 60
cgttttggag tacggggcct tgagcgggtg ggagctgtgt gttgaagtac agagggaggt 120
tggggtgggt cagagccgag ttaagagatt ttctttgttg ctggaccctt tcttgaaggt 180
agacgtcccc caccgggaga gacgtcgcgc tgtggcctga agtggcgcaa gcttgctttg 240
taaatatctg tgggtccgat gtagtgccca gaacgtttgt gcgaggcagc tctgcgcccg 300
ggttccagc                                     309
```

<210> 798

<211> 315

<212> DNA

<213> Homo sapiens

<400> 798

```
ccaccagcat tgacgttctt gccatccaga agagctgaca gtgtcagttt aatacctggc 60
tttagagtct gagtgtatcc taaacctatc aggctggagt tgttcacttt agccgagaag 120
caggcgtcag ggtcaatctg atacttggct gctattccga agcgcgtgtt actgtttcct 180
gctgtccagg caagattgac agcgggtctcc aacttcttgt tcactttctg gtaaatggag 240
ccgccaaact ctgtcccgtc attcacatta gtgtgaagct ggaattcatc agtctttag 300
ccaactgcaa agttg                                     315
```

<210> 799

<211> 157

<212> DNA

<213> Homo sapiens

<400> 799

```
ctgtgatttc ctccatagtt ggcttctggg tcaggccata ggcaatattt tcttgaagac 60
ttcttccaaa tacctgtggc tcttgtccca ctgcagccac ctgcctgtgc aggtagcggg 120
gctcatattg ggggaagggg ttcccatcca acacgag                                     157
```

<210> 800

<211> 357

<212> DNA

<213> Homo sapiens

<400> 800

```
aaactcagtg aacccaaacc tatttttttc aatctgaata ttgctgcagc aaaaccaact 60
ccacaaaaaa gccgggtaac attaacaaaa gaattccctg tatcatctgg atctcaacat 120
cggaaaaaag aagcggatag tgtttatgga gaatgggttc ctgtcgagaa aaatggtgaa 180
gaaaacaaag atgatgataa tgttttcagc agcaatttgc cctcagagcc tgtggacatc 240
tctacagcaa tgagtgaacg ggcaattgct cagaaaagac tcagtgaagaa tgcatttgat 300
cttgaagcca tgagcatggt aaatagagct caggaaagga ttgatgcctg ggctcag 357
```

<210> 801

<211> 359

<212> DNA

<213> Homo sapiens

<400> 801

```
cctagggggc atatcaaggg tttaatagac tgggggaatg ggcaacagaa ctggctacct 60
```

tagaggctct ggaatgcccc ccacccatcc acccaccaat ggaaggaaag tcaggcatcg 120
 cctaaaagga gtgggtcccta tctagcccca agtctggagc agaaagggca ggtccattct 180
 ggcccaagtg acattgttag atcctgtccc ctcccccaat cactgctgct tgccagggtg 240
 cctcttcaca gttcccatgt ggcagcagta gtggcagagg cagaagtgga cttattgtag 300
 attgcagtac agatacatgg acacaatcat ggcagccagc tcgaggcccc caattccag 359

<210> 802
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 802
 ccaggctcgg gcaccacctc aatcacatcc atgatcaaga tccgccctcg gcacgtgacc 60
 tcctccccct gcatgaggca ggtcccggcg gccacgtagc ctttgaggcc cgacacggtc 120
 tcctcactgc gcagagacac tgtcttcatg caggtcacat gctcccactc ctgcagctcg 180
 atcctggcat tgggaatagc ctcccag 207

<210> 803
 <211> 311
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 88, 94, 188, 219, 274
 <223> n = A,T,C or G

<400> 803
 cctatttcac tgctgtgtag cctcagtgcc taacatgggt gccaaataaa tattcgtaga 60
 attacactga attgtaaaaa ccattcgntt ttgnnttaca ttgccaaaaa tctcaaaagg 120
 ccctgtatTT atgtaattct ttgaaattat tattttatTT tgattttctca gttattgact 180
 ggctggngt gacttagtac ataagtactc aatattatna aaacctcaaa taattgactt 240
 gattttacac aacatccttc ccttttctac aagntaattt ttttacaat catttggggt 300
 atctcctaaa t 311

<210> 804
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 804
 ctgttcggat ttaacttcat cttctggctt gccgggattg ctgtccttgc cattggacta 60
 tggctccgat tcgactctca gaccaagagc atcttcgagc aagaaactaa taataataat 120
 tccagcttct acacaggagt ctatatcttg atcggagccg gcgcocctcat gatgctgggtg 180
 ggcttcctgg gctgctgcgg gg 202

<210> 805
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 805
 ccaaccagtc tggctggagt gatgcattcc tggcccagca cacgatgctt accctggatc 60
 ccaacgtcac cgggtgtcttc ctgggaccct acccctttgg catcgatcct atttgagacc 120

tggtcgccaa ccacttgagc ttccctcaact ccttcaagat gaagatgtcc gtcacccctgg 180
ggtcggtgca catggccctt ggggtgggtcc tcggaggtctt caaccacgtg cacttttg 238

<210> 806

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 129, 141, 291

<223> n = A,T,C or G

<400> 806

cctgaggtct gcggaagggt ggaggaggca gacgccctgc gtggcccatg gtcggggcgt 60
ccacgccgag gccggcaaca aacgacagta tctcggattc cttttttttt taatttttta 120
tactttggng tttcacttcg ngctctgaat actgaataac catgaatgac tgaatagttt 180
agtccagatt ttacagagg atacatctat ttttatcatt atttgggggt tgaaaaattt 240
ttttttacac cttctaattt ctttatttct caaagcagat aattcttctg ngtgaaaatg 300
ttttcttttt ttaatttaag gttaa 325

<210> 807

<211> 289

<212> DNA

<213> Homo sapiens

<400> 807

cctaaaggga actgtcttct gtcgagaagt aaaggaaact tcatgaagga tgtagaagct 60
tagctgcctc agagaagaga gaacctgaag atctgaggca agctggacag gagaggtaga 120
tatttggtga tggaagaatt caagtttata atcaattccc acttagcacc tactgtgtgc 180
taggaacttg aatgtgtatg ttgacaagt cctgcttggc ctgatgggtg ggagaaggaa 240
cctgagcctg gctgagatgg ctaggcggag ggctttgaag tccaagcag 289

<210> 808

<211> 376

<212> DNA

<213> Homo sapiens

<400> 808

aaacttaatt aaagagcttg acaagctctg catattcatg tgtcataagc agtatgtgac 60
aaaaaaaaact gtgcagtatg taccacctca cgaaatttag tttggcaggg aaaacaagat 120
gcacatgtta ttataaatta gaaaatggaa gagaagtaga aataaatcca tgagtattat 180
atataagtaa cagaacaaaa acaacaggat aatgtatccc ccccaaaggc ccagtagaga 240
ccatcaaagc tcatctctgg ggtagtcaag gagggagtgg agggagaaaa agaacgcaga 300
ccttcaacca ctaatgaaag aactgaaaca tctgtatgta gaaaaaagggt aaatcaact 360
cactatcatc ttcagc 376

<210> 809

<211> 243

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 19, 162, 174, 175, 182, 193, 198

<223> n = A,T,C or G

<400> 809

```
ccatctcatt ttcaaagtnc agagctacat aacacagttt ctcttgatg tcccggacaa 60
tctcacgctc agcagtagta acgaaggaat agccacgctc agtcaggatc ttcattgaggt 120
agtcagttag atctcggcca gccagatcca gacgcatgat gncatggggc aagnnatagc 180
cntcatagat ggngacantg tgggtgacac catctccaga gtccagcacg atgccagttg 240
tgc 243
```

<210> 810

<211> 274

<212> DNA

<213> Homo sapiens

<400> 810

```
aaaaaacacg tttgttatta ccaaaaagag acgtcttttag gtaaaaataa taaaaacccc 60
atgctgcatt gataatgcag atagtctctat ttatctgggc aacgggcaaa aagcaagcac 120
tttaggtctt cagctccaat cttttgttca tttcttattg ctggaatttc atatttcttc 180
ttgttgtagt actaaaccgg atgatggtag agatggtaag ccggcattta ctacagccccg 240
ccctgctcag cctcgggagc ggacgaattc tcag 274
```

<210> 811

<211> 205

<212> DNA

<213> Homo sapiens

<400> 811

```
ctggtggaga tcatcaaggt gctgggaaca ccaacccggg aacaaatccg agagatgaac 60
cccaactaca cggagttcaa gtccctcag attaaagctc acccctggac aaagggtgttc 120
aatctcga cgcgccaga ggccatcgcg ctctgctcta gcctgctgga gtacacccca 180
tcctcaaggc tctccccact agagg 205
```

<210> 812

<211> 199

<212> DNA

<213> Homo sapiens

<400> 812

```
aaatattgct gctgctttgt agatgatgag aagaaatggt aaagtgttt ctaaaaggaa 60
atTTTTTcac ctttgaggga gaatatatta gagttgtggg taatttttca cagccaccta 120
tgtacatact aattacccat tggatactta tatctaaaag tctcatgctg aagtatagtt 180
tttgggaaag aatgatttt 199
```

<210> 813

<211> 334

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 40

<223> n = A,T,C or G

<400> 813
 cctcaccgcc gatgcaagga tagtcatcaa cagggcccg gtggagtgcc agagccaccg 60
 gctgactgtg gaggaccggg tcaactgtgga gtacatcacc cgctacatcg ccagtctgaa 120
 gcagcgttat acgcagagca atgggcgcag gccgtttggc atctctgccc tcatcgtggg 180
 tttcgacttt gatggcactc ctaggctcta tcagactgac ccctcgggca cataccatgc 240
 ctggaaggcc aatgccatag gccggggtgc caagtcagtgc cgtgagttcc tggagaagaa 300
 ctatactgac gaagccattg ctctgcgacc tgcc 334

<210> 814
 <211> 358
 <212> DNA
 <213> Homo sapiens

<400> 814
 ctgaagcttg gaacttcttg acaagaaaag gcctgggttc tgggtggcctc tatgaatccc 60
 atgtagggtg cagaccgtac tccatccctc cctgtgagca ccacgtcaac ggctcccggc 120
 ccccatgcac gggggagggg gataccccca agtgtagcaa gatctgtgag cctggctaca 180
 gcccgacctc caaacaggac aagcactacg gatacaattc ctacagcgtc tccaatagcg 240
 agaaggacat catggccgag atctacaaaa acggccccgt ggagggagct ttctctgtgt 300
 attcggactt cctgctctac aagtcaggag tgtaccaaca cgtcaccgga gagatgat 358

<210> 815
 <211> 203
 <212> DNA
 <213> Homo sapiens

<400> 815
 ctggaagccg gactcagcca ggggtgcgcta ctaccagagc ctgcaggctc atctcaagggt 60
 ggacgtgtac agacgctccc acaagcctct gcccaagggg accatgatgg agacgctgtc 120
 ccgttacaag ttctacctgg ccttcgagaa ctcccttgac cccgactaca tcaccgagaa 180
 gctgtggagg aacgccctgg agg 203

<210> 816
 <211> 92
 <212> DNA
 <213> Homo sapiens

<400> 816
 cggccgcaga agcgagatga cgaagggaac gtcacgtttt ggaaagcgtc gcaataagac 60
 gcacacgttg tgccgccgct gtggctctaa gg 92

<210> 817
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 817
 ttggaggact atttgaattt tgcaaactat ctcttgtggg tttttacacc actaatactt 60
 ttaatacttc cttactttac tatctttctt ctctacctta ctattatttt cttacacatt 120
 tataagagaa agaattgtatt gaaagaagcc tactctcata atttatggga tgggtgcaagg 180
 aaaacagtgg caactctgtg ggatggacat gcagccgttt ggcattggta tgaagttcat 240
 ggaatggaaa aaataccaga agatggacca gcacttataa ttttttatca tggagctatt 300
 cctatagatt tttactattt catggctaaa atatttatac acaaaggcag aacttgccga 360
 gtagtag 367

<210> 818
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 818
 aaataaaagt attacgtaac tttgaaattt gtataaaatt aaaagatagt aaaaacaact 60
 attctaacag aattcaaaac ctgttatgct tcagtggaga gattattcaa gataagtccg 120
 tgggaaattg ggagtacatt tctactggca aagttagtga taactatgca cttctgacaa 180
 aatgtgaaat ggggggtatg ggcgtgtcat atcatcatgg tgcagatacg tggatgtgtg 240
 cttccaaaca atggcaacct aactgactgc tggaccata caaaatacct gaaactactc 300
 agaaagaagg tgaaaattgc atgcaaaaat tatttgaaaa atattgagct aacacaacat 360
 gaatttggaa ttataagtga g 381

<210> 819
 <211> 109
 <212> DNA
 <213> Homo sapiens

<400> 819
 ccatggccgc ttccagacca tggaggagaa gaaagcattc atgggaccac tgaagaaaga 60
 ccgaattgca aaggaagaag gagcttaatg ccaggaacag attttgcag 109

<210> 820
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 110, 134, 164, 185, 235, 291, 304
 <223> n = A,T,C or G

<400> 820
 ctggaaaaac ctttcagcga accatttcag ctcaggacac gttagcgtat gccacagctt 60
 tgttgaatga aaaagagcaa tcaggaagca gtaatgggtc ggagagtagn cctgccaatg 120
 agaacggaga cagncatcta cagcagggtt cagaatctcc catnatgatt ggtgagttga 180
 gaagngacct tgatgatgtt gatccctaga ggaacatgcc cagcctgaga ggagncaaga 240
 cacaatactg gatgctcagc accttctttg gaatcagaat ctcgaaccct ntggaagagc 300
 ctgnagatt 309

<210> 821
 <211> 236
 <212> DNA
 <213> Homo sapiens

<400> 821
 catccgcttc ctgaatgctg agaatgcaca gaaattcaaa acaaagtttg aagaatgcag 60
 gaaagagatc gaagagagag aaaagaaagc aggatcaggc aaaaatgatc atgccgaaaa 120
 agtggcggaa aagctagaag ctctctcggg gaaggaggag accaaggagg atgctgagga 180
 gaagcaataa atcgtcttat tttattttct tttcctctct ttcctttcct tttttt 236

<210> 822

<211> 388
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 117, 360
 <223> n = A,T,C or G

<400> 822
 gcgaggcaag atggagttag tgcaggtcct gaaacgcggg ctgcagcaga tcaccggcca 60
 cgggcgtctc cgaggctatc tacgggtttt ttccaggaca aatgatgcga aggttgntac 120
 attagtgggg gaagacaaat atggaaacaa atactatgaa gacaacaagc aatttttttg 180
 ccgtcaccga tgggttgtat atactactga aatgaatggc aaaaacacat tctgggatgt 240
 ggatggaagc atggtgcctc ctgaatggca tcgttggctt cacagtatga ctgatgatcc 300
 tccaacaaca aaaccactta ctgctcgtaa attcatttgg acgaaccata aattcaacgn 360
 gactggcacc ccagaacaat atgtacct 388

<210> 823
 <211> 353
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 177, 297
 <223> n = A,T,C or G

<400> 823
 aaaagtttgg atctttttct cagcaggtat cagttgtaaa taatgaatta ggggccaaaa 60
 tgcaaaacga aaaatgaagc agctacatgt agttagtaat ttctagtttg aactgtaatt 120
 gaatattgtg gcttcataatg tattatttta tattgtactt ttttcattat tgatggnttg 180
 gactttaata agagaaattc catagttttt aatatccagc aagtgagaca atttgaacag 240
 tgtattctag aaaacaatac actaactgaa cagaagtgaa tgcttatata tattatnata 300
 gccttaaacc tttttcctct aatgccttaa ctgtcaaata attataacct ttt 353

<210> 824
 <211> 264
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 186, 223, 226, 249
 <223> n = A,T,C or G

<400> 824
 ctgggtgcag gcgggctgag tccgaaaaga gagtcagcaa agggagatgg ggtggggccg 60
 ttttatagga ttagggaagg taatggaaaa ttacagtcaa aggggggttg ttctctggtg 120
 ggcaggtgtg gatctcacia agtacactct caaggggtgg gagaattaca aaggaccttc 180
 ttaagngtgg gggagattac aaagtacatt tatcagttag gngngngcag gaacaaatca 240
 caatgttgna atgtcatcag ttaa 264

<210> 825

<211> 361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 210
 <223> n = A,T,C or G

<400> 825
 aaaatccagt ttgttggttaa caaaacctac tgctgggtgg ttttgaatat attactttta 60
 ggcatgatct cccaatgtg tttttactcc ttttccggct tctaggacag aggtatgtag 120
 tcaaagaatc ctatggtgga tctgaattgg gtttcagcta ctgtacctgg tcctttgtgaa 180
 ttaaaaaaat aaagtcacaa aaaccataatn acaaaacaaa ttaaaataaa tagacaaaat 240
 gaagctgtct ccagaccttc tgcattgaca cacaggtttg aagtcaacca aagcactcat 300
 gctaattctgg atgggaacac tagggagaca gaaaccccag tatgaaacca tgtacttgag 360
 c 361

<210> 826
 <211> 195
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 26, 32, 44, 162, 179
 <223> n = A,T,C or G

<400> 826
 cccagaagn gacgcagccc tctatnggcc cnaatcttct tcantcgtc caggtcttca 60
 cggagcttgt tgtccagacc attggctagg acctggctgt attttccatc ctttacatcc 120
 ttctgtctgt tcaagaacca gtctgggata ttgtactggc gnggattctg cataatggng 180
 atcacacgtt ccacc 195

<210> 827
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 827
 caacggctct tcacagacca cctccttttc taaggaaaat ggctgggtatg acgtgatgag 60
 tgatacatat ttgtattcag gttttgtctc taaagtagca cttcttacca cagagatcaa 120
 ggacttgggt aatattatgc ttttttctct caatggatta attttcttaa tataaaaaca 180
 gatgaatacc aggctaagca ctagaaagag tagtaaagca gcaacaa 227

<210> 828
 <211> 242
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 65, 214, 222
 <223> n = A,T,C or G

<400> 828
 atgtccgggg agtcagccag gagcttgggg aagggaagcg cgccccggg gccggtcccg 60
 gaggntcgat ccgcatctac agcatgaggt tctgcccgtt tgctgagagg acgcgtctag 120
 tcctgaaggc caagggaatc aggcataag tcatcaatat caacctgaaa aataagcctg 180
 agtggttctt taagaaaaat ccctttgggtc tggngccagt tntggaaaac agtcagggtc 240
 ag 242

<210> 829
 <211> 374
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 339
 <223> n = A,T,C or G

<400> 829
 gaggtcctga aaaggaatac acttccatat catgccatct cttacactgg cattccttgc 60
 ctatgcatgt gcatggcttg ccctgggtta gcttggaac tgattgaaag tcagagagat 120
 cactggcttt gagacttgct tgggggactt gggtagcgtc agaggagtct tccttcttac 180
 tctctgatgg gagccttgga acagaagttc tcaaaggctc aacgactgcc cctgcgtgat 240
 tagcatcgag agaagtagag ctttctcctg cactgaactc tttaggggat gaaattccca 300
 gccactgct gccatcaggt gagtcagtct ggcttttng cttgagttga ctgctggaag 360
 aagacgctat tgta 374

<210> 830
 <211> 325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 239, 313
 <223> n = A,T,C or G

<400> 830
 gttcaaagca gaaaatcctg agcctctagt gtttggtgtg aagtacaatg caagttcttt 60
 tgccaagttc acgcttattg tgacagatgt gaatgaagca cctcaattct cccaacacgt 120
 attccaagcg aaagtcagtg aggatgtagc tataggcact aaagtgggca atgtgactgc 180
 caaggatcca gaaggtctgg acataagtta ttactgagg ggagacacaa gaggttggnt 240
 taaaattgac cacgtgactg gtgagatctt tagtgtggct ccattggaca gagaagccgg 300
 aagtcacat cnggtacaag tgggtg 325

<210> 831
 <211> 85
 <212> DNA
 <213> Homo sapiens

<400> 831
 tggtaaccggg cccccccct gagcgatgga gcgtgggtag ggaggggtcca cagtgtocac 60
 tcgccgtgtg cgaaggttga ctcgg 85

<210> 832
 <211> 202
 <212> DNA
 <213> Homo sapiens

<400> 832
 aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
 tgtggccctt gagggtgcca cgaaggggtca tctgctcagt catggcggcg gcgagagcgt 120
 gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
 tcctgccgtc gacgcggccg cg 202

<210> 833
 <211> 503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 434, 477, 495
 <223> n = A,T,C or G

<400> 833
 ccggctggtc ctgcatcgcc atctgctggc cgcgcggcac ggccgggttc tggagccagc 60
 aggagtcgga ggctgcaggg ctggaaggcc tcttcaccgt gccctccagg gaggctagct 120
 gccgaagtat tcctgctgga acttctggaa gtcttcctcg gtgaacacgg tgccctcagc 180
 cttcttcttc ttggctcttg ccacaggccg gtcacaggcc ttgcggcccc gggtctggcg 240
 caaaatctgc tggctcacag actcagccac ggtgcttctc gtcctggtea gaaacttcag 300
 gtttactctg aggtgggtct gacactctcg ctcccggtac tcgtccagtg ccgacttggg 360
 cacctttccc ttggccgagt tccgcagttt ctgggcctga attgccttcg tcttcggggg 420
 ccgtttcacc gganccctc tcggcttggc ctgacctgga ggggtcccggg gggcctngga 480
 cgccgccagc agctncaggc ccc 503

<210> 834
 <211> 208
 <212> DNA
 <213> Homo sapiens

<400> 834
 atccagagac aatctgccgg ttgtcagagg agaaggccac actcagcaca tccttggtat 60
 ggcccacaaa tcgcctcgtg gtggtgcccg ttgtgagatc ccagaggcgc aggggttccat 120
 ccaggagcc tgagagggca aactggccat ctgaggagat aaccacatca ctaacaaagt 180
 gggagtgacc ccgcagagca cgctgtgg 208

<210> 835
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 88
 <223> n = A,T,C or G

<400> 835

```
<210> 836
<211> 426
<212> DNA
<213> Homo sapiens
```

```
<210> 837
<211> 134
<212> DNA
<213> Homo sapiens
```

```
<210> 838
<211> 538
<212> DNA
<213> Homo sapiens
```

<400> 838							
ggcgtcctgg	tgcttaccac	ctggaaactg	gtgaggtggt	gggagaactc	ctggtggacc		60
ctagtggaag	ccttccagta	atttcttgaa	gctgagcgct	caggtgagta	gggcgacatc		120
tggtggccgg	ttgttgaagg	tcattgcaga	gaggaaaggaa	gccgaggagg	ggagcctgca		180
gtgagggcgt	cctggggttc	tccggttctc	accacccttg	ggccacgcgg	tctagtccac		240
acctgaggag	ttggtcaggt	agaaggggcg	gatgaccgtg	cgaagccgt	tgaagtccc		300
tgccggggcag	gggaaggagg	aggtgctctt	cgagctgttg	gtgtccaggg	cactgggaat		360
cgcagccttc	cagccctcga	aatcgggtgac	gtctgccacg	aagagccctt	cgcagagcat		420
cagggccttg	tttctgtagg	caatgggtgcg	atctgagccg	ccagacttgg	tgaggcccan		480
gacagggagc	tcgtccgagg	agcaggagaa	gccgtagttc	cagcagctct	ggatggtg		538

<210>	839
<211>	351
<212>	DNA

<213> Homo sapiens

<400> 839

```
aaggcggcaa cgggtggtgaa agatatagca ggcttgggtct ttgtacagcg gatgctcgtg 60
aagagggggc gagcggtaga accttgggtc cttgtagccg cgggtcccagg gcggaaagat 120
cggccgcgcc agccagggca cgaagtgcac cttccccgca aaggatgatg gctccagtcc 180
agggatctcg taccctctat ccaggggagg aggtccgac ttccgcgtgg agcgacagcc 240
ccactcatac gcccgcggtc tcggggcccc gaagccccca aggcgagct gcccgagcc 300
agctagcgcc cgccttgcgg gcccggacgc caatgccata ccgatctgat a 351
```

<210> 840

<211> 574

<212> DNA

<213> Homo sapiens

<400> 840

```
tggcctgcaa ggccgcggac agggcgagca ccgagtcgta cattttgcag ctcatcatcc 60
ccgtgctctg cgtgacgcag tccatccaca gcccttcta catggcctgg gccgtgatga 120
tgttgtcacc cgcataggag ctcatctgcc actgcgggat ggcggtgcag gccaccagac 180
ccaccagcc cagcagggcc atggagaagc ccagcaactg caggcccgaa ttggccattt 240
ccgccctcag aaaacactgg gggcgccggg cgggagaccc tacagtaaaa caaacgacac 300
ttggggggca gcccacaaa agaaaacttg aggtggagtt ttccggtcac ccaaagagac 360
aaaaagggtt tgggccagggt gaatgcaaat cttgtcacca aactacacac aaatcgaccc 420
ctccagtga gcatggcct cgcggcacag ggagtaggat acgcccggag ggtgggtcca 480
gacaaaattg gtggtccccg aaggccaggc ggttccctcc ggcgctctcg gcgaccctag 540
gcaaacaaaa ggtggagggg ccgtctgggc gcgt 574
```

<210> 841

<211> 195

<212> DNA

<213> Homo sapiens

<400> 841

```
gaccagggg cagaggtcc cagatgatag cccctctctg aatgagcacc caggcaacac 60
agtccggggc tgtgtgtagc aaacctgtca gcagctgcct cctgggacaa ccacccctt 120
acatgctatc tatctaccag acaaatgaaa gctcttctta ccccatctcc caggcaccac 180
ccagcaaggg ctctg 195
```

<210> 842

<211> 207

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 85, 87, 89, 101, 127, 138, 139, 147, 149, 150, 191

<223> n = A,T,C or G

<400> 842

```
cggccgccct tttttttttt ttttcgttga aaaccaataa tttatcaaaa cgctgcgtgt 60
gtatgtgggg gggagggtgt cacancnc agggcagcgg ngggcgagc cacaggcagg 120
aaacgnggcc cggaaagnng gggcggnann ttgccactgg ctggccatgc gggcgggcag 180
gctaaacatt nttgccgcgc aggcgca 207
```

10054401301

<210> 843
 <211> 62
 <212> DNA
 <213> Homo sapiens

<400> 843
 cgatggagcg tgggtaggga ggggtccacag tgtccactcg ccgtgtgcga aggttgactc 60
 gg 62

<210> 844
 <211> 118
 <212> DNA
 <213> Homo sapiens

<400> 844
 ttgggtacac tccctggtac cgggcccccc cgatccggct gccagccctg aggccaagca 60
 cggttgagga cccacgacct ggctgcccgt tgccctgagc tgcagcctcg gccccagg 118

<210> 845
 <211> 99
 <212> DNA
 <213> Homo sapiens

<400> 845
 gtacactccc ctggtaccgg gccccccac taccgagtca accttcgcac acggcgagtg 60
 gacactgtgg accctcccta cccacgctcc atcgctcag 99

<210> 846
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37, 552, 554
 <223> n = A,T,C or G

<400> 846
 cgcccgccct tttttttttt ttttggttgt ggctganaat gctggagatg ctcagttctc 60
 tccctcaciaa ggtaggccac aaattcttgg tggtgccctc acatctgggg tcttcaggca 120
 ccagccatgc ctgccgagga gtgctgtcag gacagaccat gtccgtgcta ggcccaggca 180
 cagcccaacc actcctcatc caagtctctc ccaggtttct ggtcccgatg ggcaaggatg 240
 acccctccag tggctggtac cccaccatcc cactaccctt cacatgctct cactctccat 300
 cagggtcccca atcctggctt ccctcttcac gaactctcaa agaaaaggaa ggataaaacc 360
 taaataaacc agacagaagc agctctggaa caaaaagtac aaaaagacag ccagaggtgt 420
 gcggagaggg tgaggtggcc gcgtggacgt gggtagataa tcgcatgcag cactggaaact 480
 cctgatgagg ggtgggtgcc ccacttctcc tcaaggtttg agggattggg gggagggggg 540
 cagctgactc ananaagta 559

<210> 847
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 847

```

cgcccgccac gctgggttttg catcttcagg agacgctcgt agccctcgcg cttctcctcg 60
gccagttcgc ggaagaagtg gctcacgcct tccagagcca catcatcgcg gtcgaaatag 120
aagcccagag agaggtaggt gtaggaggcc tgcaggtaga aattgaccag gctgttgacg 180
gctgcctcca cgtcggtgga ataattctga cgaatctggg agctcatggt tggttggcaa 240
gaaggagcta accacaaaaa cgggtgctggc aggtcccaga agcaggagat ggccgagaag 300
atggtcccgg aggttgcaag cggagaggaa atcggagggc ggtcggaggc tggaagagag 360
tccccggatc tgttccgtcc aaacactggt gaagcaagag acagaccgcg gggacgtcga 420
cgccggccgcg                                     430

```

<210> 848

<211> 546

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 146, 162

<223> n = A,T,C or G

<400> 848

```

agagtaaagt gcagcctctc cagacactgg ggccccagtg ggcgtgggcg aagttgctgg 60
taggaggagt tggcggaagc acttggaact cttttataag tgtcagctgt gagattttta 120
tttgatttga aaatgagtaa gtgcanaaag acaccagttc ancagctagc aagtcccgcg 180
tcattcagcc cagatattct tgctgacatt tttgaactct ttgccaagaa cttttcttat 240
ggcaagccac ttaataatga gtggcagtta ccagatccca gtgagatttt cacctgtgac 300
cacactgaat ttaatgcatt tcttgatttg aagaactccc taaatgaagt aaaaaaccta 360
ctgagtgata agaaactgga tgagtggcat gagcacactg ctttcaactaa taaagcgggg 420
aaaatcattt ctcatgttag aaaatctgtg aatgctgaac tttgtactca agcatggtgt 480
aagttccatg agattttgtg cagctttcca cttattccac aggaagcttt tcagaatgga 540
aaactg                                     546

```

<210> 849

<211> 196

<212> DNA

<213> Homo sapiens

<400> 849

```

gaagtccttc agcaggccac gctcggacag ggtgcgcctc aaggacttct ttctgatgag 60
ggggaccttg tacatgatgc actcagagag cgccaccaga cccagcagca gcagccactt 120
catggttctt cccgggtccc aactcgaggg agaaggcgctc gacgcggccg cgaattccac 180
cacactggac tagtgg                                     196

```

<210> 850

<211> 543

<212> DNA

<213> Homo sapiens

<400> 850

```

cactgatatt ggagaaaagc acatccggca taaagtgtaa accagtgtct caaactctgg 60
aagaaccggg agagcaaaca tgatttttct tatttcctct aagtaatctt tctttagtaa 120
aacaacaagt gatctttggc atagattcat actttaaggg cattaatatt gcatttatat 180
caggcaagca actatacaaa tatgctgagg gccttgaaaa taatcatcct cattttaaag 240
gaaatagtga aagcctgagt gtaaaggacc aacttaagtt gtacacattc gatgttggga 300

```

```

actaacacac agcgatgggt gggaaggaag gatgttcagg caaggttctt actcctttac 360
tcatctgggt ctggcttttg gaaaaaataa ggtttcatgt gctgggaaat acttagcagt 420
aataagtacc aaaaaggaaa cactgccctc tcattttgcc tagtaggaac ttactgtggg 480
gataagaaat atgaaaccca ttactctctt gaaccccata cttgggagta gatgcagaga 540
gct 543

```

```

<210> 851
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 851
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcca cgaaggggtca tctgctcagt catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tcctgccgcc 190

```

```

<210> 852
<211> 407
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 38
<223> n = A,T,C or G

```

```

<400> 852
aggcctcaca gaggcggggg cagaaggcgg cgacccanag ccgccacatc ccccgcccttg 60
ggcgccgtca cagtccccag acgccctgga ctctgcagt ctacgaagac gcgcggggga 120
cggcgtgggt ccgagagagg gcgccaaagg cgacgtgccg gccgccagct ccaggccag 180
ccccgagcgc ctgcaggaac agggcccttc acccggcgcg ggacgcagag ctgcgagaga 240
atcttgttca gcgcggactc aacgccaggg cgccgcctag aggttggtct ctgtctcggc 300
ctcaccgcc gggagaccac agagctgctt cccagccgc ccgcgcgcag aaattggaaa 360
aaaaaaaatc cagctggggg ctaggaactc ggcttctggc acctctg 407

```

```

<210> 853
<211> 626
<212> DNA
<213> Homo sapiens

```

```

<400> 853
acagtcccag tactctttgc tcagctttcg gggccggcct cgtttccgct tcccggtgctt 60
gggatcccc ttcttgacgt cacgaaaacc atcgctgggg aagagcttgc catcagtggg 120
atccagggtc acgtcacttc caccggagtc tgaggagtgg gagctccgag aagcaccagt 180
ccctgcgggt gagacgtcag agctgccggg ggaggggggt cctgcgccac agctgccggg 240
gtggtagggg ctggcttgct gaccgtcgtc cagcagctcc tgggcaaagg ggctgccctg 300
gtcaaagggc cctgggtcta gggcctcctg gaaggccatg ccatacttct ccagcagctc 360
aatgatccaa ctgagctcat cagaagagct ggaagtggag tctcgacagt gggcatggag 420
ttggtcccc agaggcccaa agaccagacg cagtcctca agggcacaat tgcagagggt 480
ggcgccatcc atgtcacatc gtgagaagtc aatggcgctt gcgtcgact tgttcttctc 540
cacttggtag ctgatccagt ccagaacctg cgtcttcgac cagaactggg gctgttcccc 600
caaccagctg gccttctctg taccct 626

```

<210> 854
 <211> 218
 <212> DNA
 <213> Homo sapiens

<400> 854
 atgacggctg cccgaagccc cccgagattg cacatggcta tgtggagcac tcggttcgct 60
 accagtgtaa gaactactac aaactgcgca cagaaggaga tggagtatac accttaaagt 120
 ataagaagca gtggataaat aaggctgttg gagataaact tcctgaatgt gaagcagtat 180
 gtgggaagcc caagaatccg gcaaaccag tgcagcgg 218

<210> 855
 <211> 50
 <212> DNA
 <213> Homo sapiens

<400> 855
 gaggaacgaa gaataaagga gattgtgaag aaacattctc agtttattgg 50

<210> 856
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 856
 tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac gccccgcgag cacagagcct 60
 cgcctttgcc gatccgcgc cgcgtccacac ccgcgccag ctcaccatgg atgatg 116

<210> 857
 <211> 402
 <212> DNA
 <213> Homo sapiens

<400> 857
 ggcgacgacc ccaagagggg ggtgggccac gatttctact tcttttttca ccattcgaca 60
 gttccactct tacacggcag ccacatagtg ttcttccatc tagctctcgg actgcatcag 120
 ctgcatctcg gggatcttca aattcaacaa aagcaaagcc ggggtgggttt ctagcaaccc 180
 acacacttcg gagtgggtcca tagtagccaa aagcccggtc caattccgtc ttgttgccat 240
 tgtttccaag attgcctaca taaaccttac agtccaatgg acaggaatca cgatgcattt 300
 cgagatctag ggttaaaaaa tgcggcgggt caaatccaca cgctccgatg agtcttcccg 360
 ctttctccg gcccaacacc aaccaacgtc gacgcggccg cg 402

<210> 858
 <211> 172
 <212> DNA
 <213> Homo sapiens

<400> 858
 acattttatg acctctccca ataggggcag aggtgagcac ccttgggtgaa aagttaagac 60
 tcagtgaagta taaatacgcc aagaagagct gtggcttctt tcaactgggtg cctcagaaag 120
 gctgtgagca gtgttggttg catacctgtc acagcatcta gcaaagcacc tg 172

<210> 859
 <211> 196

<213> Homo sapiens

```

aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctggggtt acccagccgt 60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tctgcegcgc ggtcga                                     196

```

<211> 538

<213> Homo sapiens

<221> misc feature

<223> n = A, T, C or G

ggcgctcctgg	tgcttaccac	ctggaaactg	gtgaggtggt	gggagaactc	ctggtggacc	60
ctagtggaag	ccttccagta	atttcttgaa	gctgagcgct	caggtgagta	gggcgacatc	120
tggtggccgg	ttgttgaagg	tcattgcaga	gaggaaggaa	gccgaggagg	ggagcctgca	180
gtgagggcgt	cctggggttc	tccggttctc	accacccttg	ggccacgcgg	tctagtccac	240
acctgaggag	ttggtcaggt	agaaggggcg	gatgaccgtg	cggaagccgt	tgaagtgcc	300
tgccgggag	gggaaggagg	aggtgctctt	cgagctgttg	gtgtccaggg	cactgggaat	360
cgcagccttc	cagccctcga	aatcgggtgac	gtctgccacg	aagagccctt	cgcagagcat	420
cagggctttg	ttttcgtagg	caatggtgcg	atctgagccg	ccagacttgg	tgaggcccan	480
gacagggagc	tcgtccgagg	agcaggagaa	gccgtagttc	cagcagctct	ggatgggtg	538

<211> 204

<213> Homo sapiens

```

aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcca cgaagggtca tctgctcagt catggcggcg acgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacctc 180
tctgcccgcg tcgacgcggc cgcg                                     204

```

<211> 217

<213> Homo sapiens

```

aatgtcaggg  gtgttggggg  ctttggtgg  gtcctgggtc  ttctgttaga  gacctggagg  60
cgcttggttc  ttgggtttct  ccaggattcc  agcctcgtag  ctgatgtgca  tgaggtttct  120
atccatgttc  cacgggttct  tgggagtgc  cgggatggga  atcccgtgtt  gctttgcgta  180
ctccatcagg  tcattgcggc  ccttgaaccg  gttttag    217

```

<211> 192

<212> DNA
<213> Homo sapiens

<400> 863
aggcggagag gatcatgtcc gggaactgcg gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gagggtgcca cgaagggtca tctgtcagc catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcactgg atggcttaga gaaactagca ccacaacgtc 180
gacgcggccg cg 192

<210> 864
<211> 147
<212> DNA
<213> Homo sapiens

<400> 864
tttccccttg aagaagtaga cccgctcccg gccactgtag ctatgggcag ggagggccaa 60
ggctgcatcc acgttgctcg ggatgccatc gaagccgtca gagatatttc gggggtaatc 120
agggtccagg acaccatcct caaagcg 147

<210> 865
<211> 446
<212> DNA
<213> Homo sapiens

<400> 865
cgcccgctgg acttggttg agctgtgagg ggtgggaggg gaggatagca ccggaagatg 60
ctgtccggg cccaacacca gccctggcca ggctctcccc tcccaggggc agcgcccagt 120
cccaggggc tgccagagcc ctgtgtgect tgccgcattc ccctgatgca gcttttggca 180
actgaaaggc agggctctcg ctgagtgcac ctggggcttc ctgagcccat ctgcggcggc 240
cccaccctgg cctaggtgct gagtgcagct gctgcagaca gcccctccct ccttagtgga 300
gcctggaggg tggggtgctc ggggatgcag gcaggggcag gggtccaga gccacaggctc 360
agaagcaggc ctgggggagg ggtggagcca ttcagcctca ggcaccctca cagctagggtg 420
actaggggca gggacagaat ggggtg 446

<210> 866
<211> 87
<212> DNA
<213> Homo sapiens

<400> 866
tccctcaact ggaccatggg cctgcccacc gacaatggcc acgacagcga ccaggtgttt 60
gagttcaacg gcaccaggc agtgagg 87

<210> 867
<211> 123
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2
<223> n = A,T,C or G

<400> 867

```
<210> 868
<211> 634
<212> DNA
<213> Homo sapiens
```

```
<210> 869
<211> 197
<212> DNA
<213> Homo sapiens
```

```
<210> 870
<211> 579
<212> DNA
<213> Homo sapiens
```

<400> 870						
cggccgcgcct	tttttttttt	tttttttttt	tttttatggg	gccaatttta	aatagtttta	60
tttaagacat	tgcattttcc	acttacaata	cagtgtttat	aaagtgcagt	gttatttcct	120
tcccctgtgc	atatgttcca	tattcaagta	ttganaatgc	ccagtaactt	actatagcag	180
cttaactttt	taaaactgcc	acagaatttg	ctacnaattt	aggnccttca	aatgttttaa	240
atgtgnggaa	caatgctaca	tntacacttg	gntggcttaa	tcaacctntt	caatgggggg	300
ccctgaggaa	gcncnccag	agggaggagc	tccaccacca	ggaaatcccc	caggcattcc	360
tcctggcatg	cctcctgcac	tntggtacag	cttggtgatg	atgggggttg	aaactttctc	420
cagctntttc	tgntgatgtt	caaattcttc	cttctcagca	gtctgattnt	tatcaagcca	480
gnngataatt	tcattacact	tgtccanaat	cttctgtntg	ncctcatcgn	taatcttgcc	540

ttgaagtttc tcattcttcaa cagntgcttt catgttgaa 579

<210> 871
<211> 518
<212> DNA
<213> Homo sapiens

<400> 871
ctttctcctt cttatagacg ttccggacgg gcatgaccgg tccggtcagc tgggtggcca 60
gtttcagttc ttcagcagaa ctgtctccct tcttgggggc cgagggcttc ctggggaaga 120
ggatgagttt ggagcggtag tccttcagcc gctgcacgtt ggctgcagg gactccgtgg 180
acttggtccg cctcctcggg tccacagaaa tgccgatggt ccggggccacc ttcttggtgaa 240
tgccggccac cctgagctcc tccaggctga agccgcggcc ggccgcgacc ttctgtgtgt 300
accgaaccgt ggggcagcgc acgatgggccc ggatgggacc cgacgcgggg cgccggggcga 360
tgccggcgcg cttggcttgc cgggccttac gtctgcggat cttacgggcc ggctggttga 420
accacgtggc cagcgcggcg tgccagtcct tgtggaagtg gggcttcaag accatgccat 480
tccggctggg cgccatggct gcctacggcc ctgcccgt 518

<210> 872
<211> 404
<212> DNA
<213> Homo sapiens

<400> 872
ctaaacactg tccagcgcag gggggtgcta gggaggtagc gtgacaacac gatggctgcg 60
atgcctgaag tgatgaccac gatggcggaa gtgacagaga ggatgttgac cacgcagtac 120
tgcagagcca ccgcatcttg aggggtgccc acgtagcgca gcactgtgcc atggaacagg 180
gcagctgtga tgaagctcac atggcccagc accaccagca ccaggcctgt ctcatcagc 240
accttccgga agtcgcccac actcaggcct ccgaggcgca gacacatgtc ggctccgcgc 300
tgggtcccgc cccggttca gcgcggctcc cgaggtgctg ggccgcgggg ggaccctgct 360
cccatcccgc tggcccgtcg cccgcgcgcc ccgcaaccgt gcgt 404

<210> 873
<211> 175
<212> DNA
<213> Homo sapiens

<400> 873
ggctgccagc gcctctaccc cgtgctgcag cagagcctgg tgcggggccgc ccgccgcagg 60
ggcgcgcggc cccagccctg aaccagaagc ctgagcaact acggacgcaa gccgaggacc 120
gtgctgccgc cgtccacgaa aagacccgcg ccatcggcct ccagtttgcg tcgag 175

<210> 874
<211> 215
<212> DNA
<213> Homo sapiens

<400> 874
ggtagagaac cctgcggctg cgctttcggt gcccgcgaga ggcgctgggg cgcccggcag 60
gggcccgtgc gggctccggg agagggctga aggtgaagat ctgaggaccg gagccccgcc 120
ggggtcccgg gatggtggag ggggcccggg tcggggcctg caggatggtc atggtcgggt 180
ggcagctgcg agagtgcac atggtgagcc gacgcg 215

<210> 875

<211> 208
 <212> DNA
 <213> Homo sapiens

<400> 875
 atccagagac aatctgccgg ttgtcagagg agaaggccac actcagcaca tccttgggtat 60
 ggcccacaaa tcgcctcgtg gtggtgcccg ttgtgagatc ccagaggcgc agggttccat 120
 cccaggagcc tgagagggca aactggccat ctgaggagat aaccacatca ctaacaaagt 180
 gggagtgacc ccgcagagca cgctgtgg 208

<210> 876
 <211> 484
 <212> DNA
 <213> Homo sapiens

<400> 876
 gagcagctgg tttctcctgg acagcagcat ctggctccgc tcccttcgga actccaggta 60
 ctcttatttg tttttgagct tgttcattgca gtccatgagg gctgggtagc cacctgagaa 120
 tcgccacagg tgcaactgcct ggtcctgctc cccataccac gtgttccagt tgcccacgag 180
 tgagcatggg tagtcctcat ccagggtgaag cttgggcagc acagcctccg tgaggctggt 240
 gtaggcatcc aggtattcag gctttacatt gtgaaactgg atcttataga ggttgctggt 300
 ttccttcttg gacagcaggg tggagtgggc atccttccgg ggatccactt tgtgaacaaa 360
 gagggagcgg aaccagctgc cttcattgtc cttggaatag aaacgcgccg cagctgcaga 420
 cgcaacgtcc ccagcgcgag gccccggggc cccagcagc cgccgcgccg tcacagagat 480
 gctg 484

<210> 877
 <211> 558
 <212> DNA
 <213> Homo sapiens

<400> 877
 ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60
 ctagtggaaag ccttccagta atttcttgaa gctgagcgtc caggtgagta gggcgacatc 120
 ttggtggccgg ttgttgaaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180
 gtgagggcgt cctgggggttc tccggttctc accacccttg ggccacgccg tctagtccac 240
 acctgaggag ttggtcaggt agaaggggcg gatgaccgtg cggaagccgt tgaagtgcc 300
 tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccaggg cactgggaat 360
 cgcagccttc cagccctcga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420
 cagggtcttg ttttcgtagg caatggtgag atctgagccg ccagacttgg tgaggcccat 480
 gacagggagc tcgtccgagg agcaggagaa gccgtagtgc cagcagctct ggatggtggg 540
 gaggtagacc agggacca 558

<210> 878
 <211> 503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 132, 185
 <223> n = A,T,C or G

<400> 878


```

cggccgcaac cgcgcgaacc cgaagtcgat gattttcacc ggggccccgg gcgtgtcgtc 60
ggcgtagagg atgttctccg gcttgagggtc gcggtgcacc acgcccgcct cctcgtgcat 120
gaagctcacg gncgacacga ggctgcgcag gatctggctt gcttccgact cgctgaagtg 180
ccgcntcttg cggatgtgct ccagcagctc cccgccccgc agcagctcca ggaccaggta 240
cgtgtgcagc tggtcgtgat gcacctcgtg cagattcacc acgttggggg gtgactggca 300
caggcgcagg gcagccactt cgcgctgcgt gttcgctcc agcctgcgac tgaggatctt 360
gactgcgaac tcctggccgc tctggcgctg gcggcagcgg cgacacacag aaaagctgcc 420
ctggcccagc gcaggctccc gcagggtccag ctcgtactgc tggaagaagg gcgagtcctg 480
catcatagcg ctcttggtcca ccg 503

```

```

<210> 879
<211> 78
<212> DNA
<213> Homo sapiens

```

```

<400> 879
ctgcctcggc tggcggggcg ggggaggcgg agagctcggg gcacgcgctg ccgtccggac 60
cgcgtcgacg cggccgcg 78

```

```

<210> 880
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 880
tgatgtgggc gattgatgaa aaggcgggtg aggcgtctgg tgagtagtgc atggctagga 60
atagtcctgt ggtgatttgg aggatcaggc aggcgccaaag gagtgagccg aagtttcatc 120
atgcggagat gttggatggg gtggggagggt cgatgaatga gtgggttaatt aattttatta 180
gggggttaat tttgcggtcg acgcggccgc g 211

```

```

<210> 881
<211> 373
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> 37, 38, 88, 335
<223> n = A,T,C or G

```

```

<400> 881
cccacagtgg cttgtttccg cagtgcgcgg ccgtcannac ccaactctgg tccaccagga 60
caccgcgcga gtggaacgag aggcogtnga agagcgagac ctgccagggc tgcgagccgc 120
gcgcgcacgg ggcgccatag gcttcggggg ccaagcgcgt gtcgttttgg gggagcagcg 180
ccgcctctgc ggcccagagt tgcgccatca gcagcggcag cagcttcgcc agagcccggg 240
cgccagaggc ggcggagagg tggagggtcg gagctctcat ggccaggatc tgggagtcgc 300
cgataggaag gagggagggg acccagacgt gcctntgccc tgccctgtgg ctgccgcgtc 360
cgacacggcc gcg 373

```

```

<210> 882
<211> 300
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> 48
 <223> n = A,T,C or G

<400> 882
 cgcccgcggt tttttttttt ttttcagaca attcagcctt tattttanaa aataattctg 60
 tagcttccac tttctttcat gaaactgagg tcaggcaaga aacaaaaatc caccaagtcc 120
 tctccatcct gccatggcgt cctggcctgt gaggacatgg ggcgcctggg agcgggaggg 180
 gaggctgggc agcactgggc cagaggcgct ctgggtcactg ctccacctgg tcaactgctcc 240
 acctcatgct gagaggagcc tgtgtgtcaa accccagggg aaaaaggggac aggcagatcg 300

<210> 883
 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 883
 ggtagagaac cctgcggctg cgctttcggt gcccgcgaga ggcgctgggg cgccccggcag 60
 gggccgctgc gggctccggg agagggtcga aggtgaagat ctcaggaccg gagccccgcc 120
 ggggtcccgg gatggtggag ggggcccggg tcggggcctg caggatggtc atggtcgggt 180
 ggcagctgcg agagtgcac atggtgagcc gagcggtcga cgcgcccgcg 230

<210> 884
 <211> 601
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 555
 <223> n = A,T,C or G

<400> 884
 gcccccaatt ccagctgccca caccacccac ggtgactgca ttagttcgga tgtcatataa 60
 aagctgattg aagcaaccct ctactttttg gtctgtgagcc ttttgcttgg tgcaggtttc 120
 attggctgtg ttggtgacgt tgtcattgca acagaatggg ggaaaggcac tgttctcttt 180
 gaagtagggg gagtccctcaa aatccgtata gttggtgaag ccacagcact tgagcccttt 240
 catggtgggt ttccacactt gagtgaagtc ttcttgaggaa ccataatctt tcttgatggc 300
 aggcactacc agcaacgtca ggaagtgtc agccattgtg gtgtacacca aggcgaccac 360
 agcagctgca acctcagcaa tgaagatgag gaggaggatg aagaagaacg tcacgagggc 420
 acacttgctc tcagtcttag caccatagca gcccaggaaa ccaagagcaa agaccacaac 480
 gccggctgcg atgaggaagt agcccacgtt gacaaaactgc atggcactgg acgacagtgg 540
 cccgaagatc ttcanaaagg atgccccatc gattgacacc cagatgcccc ctgccaaacag 600
 g 601

<210> 885
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 82, 83, 101, 127, 128

<223> n = A,T,C or G

<400> 885

```
caggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60
ttgtggccct tgaggggtgcc annaagggtc atctgctcag ncatggcggc ggcgagagcg 120
tgtgtcnntg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
ctcctgccgc cggtcgacgc ggccgcg 207
```

<210> 886

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 10, 14, 17, 37, 41, 88, 122, 123, 152, 158, 282, 388, 422

<223> n = A,T,C or G

<400> 886

```
cancattatan aaanggnaaa ggaaacccca acatgcntgc nctgccttgg tgaccaggga 60
agtcacccca cggctatggg gaaattancc cgaggcttag ctttcattat cactgtctcc 120
cnnggtgtgc ttgtcaaaga gatattccgc cnagccanat tcgggcgctc ccatcttgcg 180
caagttggtc acgtggtcac ccaattcttt gatggctttc acctgctcat tcaggtaatg 240
tgtctcaatg aagtcacaca aatgggggtc atttttgtca gnggccagtt tgtgcagttc 300
cagtagtgac tgattcacat ttttttccaa atgtaatgca cactccattg cattcagccc 360
gctctcccag tcatcacagt ctggtttntt gatatcctga aggaagattc ggccacctcg 420
tnggttctgc agcttcatca gt 442
```

<210> 887

<211> 222

<212> DNA

<213> Homo sapiens

<400> 887

```
gctcaggctc caaagccagc aggaagagg tagctcggga cgtggagccg ccgcccaggt 60
gcgcaggac cacctcggcc gtcaccttag ccagggtggc gcttaggtcc actgtgcgct 120
tcacgtctc attgatcagc ggcgggtgct cggaggaggc gctgcccggc gccggggccc 180
aagtcccaag caacaggagc agaaacaagc cggcggctgg cg 222
```

<210> 888

<211> 89

<212> DNA

<213> Homo sapiens

<400> 888

```
ggtggcgtag cgcccgtta taaagccgca acaccttttg ctgatgggtc aggtagggtc 60
ccgacgcca gaacgccatt acggccgcg 89
```

<210> 889

<211> 451

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5
 <223> n = A,T,C or G

<400> 889
 gcggnccgctg gacttggctt gagctgtgag ggggtgggagg ggaggatagc accggaagat 60
 gctgctccgg gccaacacc agccctggcc aggcctctccc ctcccagggg cagcgcccag 120
 tccccagggg ctgccagagc cctgtgtgcc ttgccgcatt cccctgatgc agcttttggc 180
 aactgaaagg cagggctctc gctgagtgca cctggggctt cctgagccca tctgcgggcg 240
 cccaccctg gcctaggtgc tgagtgcagc tgctgcagac agcccctccc tccttagtgg 300
 agcctggagg gtgggggtgct cggggatgca ggcaggggca ggggctccag agccacaggt 360
 cagaagcagg gctgggggag ggggtggagcc attcagcctc aggcaccctc acagctaggt 420
 gactaggggc agggacagaa tgggggtgaat t 451

<210> 890
 <211> 66
 <212> DNA
 <213> Homo sapiens

<400> 890
 tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac ctgctgcctc acccacagct 60
 tttgat 66

<210> 891
 <211> 599
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 583
 <223> n = A,T,C or G

<400> 891
 gggcgctcctg gtgcttacca cctggaaact ggtgaggtgg tgggagaact cctgggtggac 60
 cctagtggaa gccttccagt aatttcttga agctgagcgc tcaggtgagt agggcgacat 120
 ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc 180
 agtgagggcg tcctgggggtt ctccggttct caccaccctt gggccacgcc gtctagtcca 240
 cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaagtgcc 300
 ctgccgggca ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcactgggaa 360
 tcgcagcctt ccagccctcg aaatcgggtga cgtctgccac gaagagccct tcgcagagca 420
 tcagggcttt gttttcgtag gcaatgggtgc gatctgagcc gccagacttg gtgaggccca 480
 ggacagggag ctcgctccag gagcaggaga agccgtagtt ccagcagctc tggatggtgg 540
 ggaggtagac cagggaccag gacaccctct tgtcctggaa gangaagctg ggggtgttgt 599

<210> 892
 <211> 113
 <212> DNA
 <213> Homo sapiens

<400> 892
 gtctcaaaca ggaccgcatt tccggcattt cggctggtgt ccgtgttagt ggccacctgg 60
 gccagcaagt cattcatggt ctcactgctc tcctcgtggg tccggcccag gat 113

<210> 893
 <211> 208
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 160
 <223> n = A,T,C or G

<400> 893
 gaggcggaga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagccg 60
 ttgtggccct tgaggggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
 tgtgtcgctg cagcgacgag gatggcactg gatggcttan agaaactagc accacaacct 180
 ctctgccgg tcgacgcggc cgcaatt 208

<210> 894
 <211> 67
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9
 <223> n = A,T,C or G

<400> 894
 gcgatgganc gtgggtaggg aggggccaca gtgtccactc gccgtgtgcg aaggttgact 60
 cggtagt 67

<210> 895
 <211> 58
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 50, 52
 <223> n = A,T,C or G

<400> 895
 gcggcgcccc tttttttttt tttttttttt tttttttttt ttttttccn cnctaaaa 58

<210> 896
 <211> 177
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 24, 63, 84, 87
 <223> n = A,T,C or G

1005380-1005380

```
<210> 897
<211> 542
<212> DNA
<213> Homo sapiens
```

```
<210> 898
<211> 165
<212> DNA
<213> Homo sapiens
```

```
<400> 898
tancnatctg ggtagccag ccgttggtggc ccttgagggg gccacgaagg gtcattctgct 60
cagtcattggc ggccgcnana gcgtgtgtng ctgcancgac gaggatggca ctggatggct 120
tanagaaaact agcaccacaa cctctctctg acgcggccgc gaatt          165
```

```
<210> 899
<211> 67
<212> DNA
<213> Homo sapiens
```

```
<400> 899
tccactagtc cagtgtggtg gaattcgcg cgcgctcgac gctgctgcct caccacagc 60
ttttgat                                         67
```

```
<210> 900
<211> 77
<212> DNA
<213> Homo sapiens
```

```
<400> 900
cttccagggtc cagagctccc aggtttccag gttgcagttcc ctccagttccc agagctccca 60
gggttttcggt ttccagt                                     77
```

```
<220>  
<221> misc feature
```

<222> 233, 273, 302

<223> n = A,T,C or G

<400> 906

```
gcggccgcac acacagccag gcgctaggct cctgcgga cctcggaag ggggaagagc 60
gtcaacaatt tacggagggt ccagccgctg ggtcagattg agacaaacca ttgtgtggtt 120
gggtttgggt cagcaggctg gagagggttc tgttcttttt gatcattatc gtttggggcc 180
ccaagggagg gtcttgggag ccacctgagc ccaaagctg ggaaattcct canagctgct 240
catgtcagga gccttctcac tgctgctggc ggnccagggt gcgtcccgc caacaaagcc 300
tntggaaggt gccttggcct ctctgtgtgc tgggggtttc atgtatacct gcagcgcctc 360
actgtccacc acgtcagcta ggtattcctc ctccagattg aggatgtggt cgatggcttc 420
ctccacattc tctgggagcc ccgtcacagt gacgcagttg gggctctggg ctccgctctg 480
tgggaagcga atgtccacct tgaatt 506
```

<210> 907

<211> 93

<212> DNA

<213> Homo sapiens

<400> 907

```
tcccgctgca caagttcacg tccatccgcc ggaccatgtc ggaggttggg ggctctgtgg 60
aggacctgat tgccaaaggc cccgtctcaa agt 93
```

<210> 908

<211> 238

<212> DNA

<213> Homo sapiens

<400> 908

```
gggtagagaa cctgcggt gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60
ggggccgctg cgggctccgg gagagggtcg aaggatgaaga tctcaggacc ggagccccgc 120
cggggtcccg ggatggtgga gggggccggg gtcggggcct gcaggatggt catggtcggg 180
tggcagctgc gagagtgaca catggtgagc cgagcggagg tcgacgcggc cgcgaatt 238
```

<210> 909

<211> 190

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 25, 56, 92, 97, 125, 132, 137, 140, 149, 150, 152, 175, 181

<223> n = A,T,C or G

<400> 909

```
gggcgtcctg gtgcttacca cctgnaaact ggtgaggtgg tgggagaact cctggnggac 60
cctagtggaa gccttccagt aatttcttga anctgancgc tcagggtgagt agggcgacat 120
ctggnggccg gntgttnaan gtcattgcnn anaggaagga agccgaggag gggancctgc 180
ngtgagggcg 190
```

<210> 910

<211> 93

<212> DNA

<213> Homo sapiens

<400> 910
 tcccgtgca caagttcacg tccatccgcc ggaccatgtc ggagggtggg ggctctgtgg 60
 aggacctgat tgccaaaggc cccgtctcaa agt 93

<210> 911
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 911
 ggggtccgtca gggctgaaga cctgcccagg cacacaactc accacggccg gtagccatt 60
 ctcgcagggtg acattcttca tgggggtccag tgacacctgg gggcccagct tgcagctgga 120
 gatgtgggcc tctgtgccgg tgcagtccat ggagaatggc cagtagcgt gcttcctccg 180
 tgaggcaaac attttgtaca ctttggtatt gtatgtcctc tccccaggga agccaaacat 240
 gccgcagacc acgcgggaat t 261

<210> 912
 <211> 67
 <212> DNA
 <213> Homo sapiens

<400> 912
 gcgatggagc gtgggtaggg aggggtccaca gtgtccactc gccgtgtgcg aaggttgact 60
 cggtagt 67

<210> 913
 <211> 545
 <212> DNA
 <213> Homo sapiens

<400> 913
 gctttctcct tcttatagac gttccggagc ggcatgaccg gtccggtcag ctgggtggcc 60
 agtttcagtt cttcagcaga actgtctccc ttcttggggg ccgagggctt cctggggaag 120
 aggatgagtt tggagcggta ctccttcagc cgctgcacgt tggcctgcag ggactccgtg 180
 gacttggtcc gcctcctcgg atccacagaa atgccgatgg tccggggccac cttcttgtga 240
 atgcgcgcca ccctgagctc ctccaggctg aagccgcggc cggcgcgcac cttcgtgtgg 300
 taccgaaccg tggggcagcg cacgatgggc cggatgggac ccgacgcggg gcgcggggcg 360
 atgcggcgcg ccttggtttg ccgggcctta cgtctgcgga tcttacgggc cggctgggtg 420
 aaccacgtgg ccacgcgccg ctgccagtc ttgtggaagt ggggcttcaa gaccatgcca 480
 ttccggctgg gcgccatggc tgcctacggc cctgcggctc ctgcgcgtcg acgcggccgc 540
 gaatt 545

<210> 914
 <211> 295
 <212> DNA
 <213> Homo sapiens

<400> 914
 gctcggcatc agaccagttc ctcagcttcc tgaagtaacc atagcaattg gacttgtggt 60
 aaaaccatcc aggagcacag ctgggtctca tgatgatata acccaggact cctgttttgg 120
 ccaggcagct cagcaatagg agcagccgca tgcttctgga agccatcttc ctccatccct 180
 gaggatgtag ctagtgcaag gatctcagag accttactag cgcttctttg aaactcctgg 240
 gttctccttg atctgcaaat ctgtttggca accaaggctc acgcggccgc gaatt 295

<210> 915
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 915
 gctaaacact gtccagcgca ggggggtgct agggaggtag cgtgacaaca cgatggctgc 60
 gatgcctgaa gtgatgacca cgatggcgga agtgacagag aggatgttga ccacgcagta 120
 ctgcagagcc accgcatctt gaggggtgcc cacgtagcgc agcactgtgc catggaacag 180
 ggcagctgtg atgaagctca catggcccag caccaccagc accaggcctg tcttcatcag 240
 caccttccgg aagtcgcccc cactcaggcc tccgaggcgc agacacatgt cggtcccgcg 300
 ctggtcccgc ccccggttc agcgcggtc ccgaggctgc gggccgcggg gggaccctgc 360
 tcccatcccg ctgtcgacgc ggccgcgaat t 391

<210> 916
 <211> 559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 538, 544
 <223> n = A,T,C or G

<400> 916
 gggcgctcctg gtgcttacca cctggaaact ggtgaggtgg tgggagaact cctggtggac 60
 cctagtggaa gccttccagt aatttcttga agctgagcgc tcaggtgagt agggcgacat 120
 ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc 180
 agtgagggcg tcctggggtt ctccggttct caccaccctt gggccacgcc gtctagtcca 240
 cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaagtgcc 300
 ctgccggggc ggggaaggag gaggtgctct tcgagctgtt ggtgtccagg gcaactggaa 360
 tcgcagcctt ccagccctcg aaatcgggtga cgtctgccac gaagagccct tcgcagagca 420
 tcagggtctt gttttcgtag gcaatggtgc gatctgagcc gccagacttg gtgaggccca 480
 ggacagggag ctggtccgag gagcaggaga agccgtagtt ccagcagctc tggatggnng 540
 ggangtagac cagggacca 559

<210> 917
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 284, 287, 336, 360, 374, 392, 397, 400, 409
 <223> n = A,T,C or G

<400> 917
 gtccttggc gagcacgtga ccccgcggg cagcaggag ggcaggcagg cccctgcgca 60
 ggcgctgggt ggactgcttc caggtgtcat attggaagaa cttgccacag gggatatctg 120
 ggaagtgtc cggaagcacg gtcggagggg tcgacacgct cctctcggac ttggcggggg 180
 tagcacagta cgtctccagg agggccagg cagagctgcg gaaacagcac tcctcaacga 240
 tgccacggct gcgacggctc acacggcttg cgggcctgct gaantanaag ccgcgggtccc 300
 cacagacgaa ctggaggggtg tccaccagct ccccgncgca cagggtctca ctggggcggn 360

```
<210> 918
<211> 574
<212> DNA
<213> Homo sapiens
```

```
<210> 919
<211> 139
<212> DNA
<213> Homo sapiens
```

```
<210> 920
<211> 576
<212> DNA
<213> Homo sapiens
```

<400>	920					
ggtggacacc	accctcaaga	gcctgagcca	gcagatcgag	aacatccgga	gcccagaggg	60
cagccgcaag	aaccccgccc	gcacctgccg	tgacctcaag	atgtgccact	ctgactggaa	120
gagtggagag	tactggattg	accccaacca	aggctgcaac	ctggatgccca	tcaaagtctt	180
ctgcaacatg	gagactggtg	agacctgcgt	gtaccccaact	cagcccagtg	tggcccagaa	240
gaactggtac	atcagcaaga	accccaagga	caagaggcat	gtctggttcg	gcgagagcat	300
gaccgatgga	ttccagttcg	agtatggcgg	ccagggctcc	gaccctgccg	atgtggccat	360
ccagctgacc	ttcctgcgcc	tgatgtccac	cgaggctcc	cagaacatca	cctaccactg	420
caagaacagc	gtggcctaca	tggaccagca	gactggcaac	ctcaagaagg	cctgtctcct	480
ccagggtctcc	aacgagatcg	agatccgcgc	cgagggcaac	agccgnttca	cctacagcgt	540
cactgtcgat	ggntgnacga	gtcacaccqg	naqcct			576

$$\begin{array}{ll} \langle 210 \rangle & 921 \\ \langle 211 \rangle & 421 \end{array}$$

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 387, 408, 409, 413, 419
<223> n = A,T,C or G

<400> 921
gcgcatctgc ccgccctagt cggggaagag caggaagccg gagaagacgc tgtcagagcc 60
ctggatgccc accatgtcgt agtagtcatt gacagccagc cacacctcct cgcccacctg 120
caacctcagc agcacaccgc ccgagttgac ctgattgggt ttggacgtgt ggccacagaa 180
ggtgaccact ttgacgccgc tgcggtacag cagcacgcac aggttggtgt tatgacgacgc 240
gtggtagaca aagtagtaga ggccggggac ttgacaggtg aacttgccag tgctcgtgtc 300
ataatctccc tgcgggttgg tgaggaccgc gttgaatctg atcaggctgt tgggtgcagg 360
gggctggtgg gtctgccgag tgaccngaa cactgactgg aatttctnnt tgnatctgnc 420
c 421

<210> 922
<211> 177
<212> DNA
<213> Homo sapiens

<400> 922
gacattttat gacctctccc aataggggca gaggtgagca cccctggtga aaagttaaga 60
ctcagttagt ataaatacgc caagaagagc tgtggcttct ttcactggtg tcctcagaaa 120
ggctgtgagc agtgttgggt gcataacctgt cacagcatct agcaaagcac ctgaatt 177

<210> 923
<211> 133
<212> DNA
<213> Homo sapiens

<400> 923
tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac gcgagcagcg gcggcggcgc 60
ggagagacgc agcggaggtt ttcttggttt cggaccccag cggccggatg gtgaaatcct 120
ccctgcagcg gat 133

<210> 924
<211> 216
<212> DNA
<213> Homo sapiens

<400> 924
gggtagagaa ccctgcggct gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60
ggggccgctg cgggctccgg gagagggctg aaggtgaaga tctcaggacc ggagccccgc 120
cggggctccc ggatggtgga gggggccggg gtcggggcct gcaggatggt catggtcggg 180
tggcagctgc gagagtgaca catggtgagc cgagcg 216

<210> 925
<211> 649
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 441, 510, 603
 <223> n = A,T,C or G

<400> 925
 ggcccccaat tccagctgcc acaccaccca cgggtgactgc attagttcgg atgtcataca 60
 aaagctgatt gaagcaaccc tctacttttt ggtcgtgagc cttttgcttg gtgcaggttt 120
 cattggctgt gttggtgacg ttgtcattgc aacagaatgg gggaaaggca ctgttctctt 180
 tgaagtaggg tgagtcctca aaatccgtat agttggtgaa gccacagcac ttgagccctt 240
 tcatggtggt gttccacact tgagtgaagt cttcctggga accataatct ttcttgatgg 300
 caggcactac cagcaacgct aggaagtgtc cagccattgt ggtgtacacc aaggcgacca 360
 cagcagctgc aacctcagca atgaagatga ggaggaggat gaagaagaac gtcacgaggg 420
 cacacttgct ctcagtcctta ncaccatagc agcccaggaa accaagagca aagaccacaa 480
 cgccggctgc gatgaggaag tagccacgcn tgacaaactg catggcactg gacgacagtg 540
 gcccgaagat cttcagaaag gatgccccat cgattgacac ccagatgccc actgccaaca 600
 ggnctgcacc acacagaaag atgagcaaat tgaagaggat catcatggt 649

<210> 926
 <211> 341
 <212> DNA
 <213> Homo sapiens

<400> 926
 gggctcctcaa actctcgaat gtacggcgca atgccacaat aaggttgatt gtggtgtttt 60
 tcatgtggca gtttctccag ggggtggcagg tatggaatag ggtcacgggg ggcaaagagg 120
 gccagaaggt tgggcggcag gaactgggtc atcttgccaa gtgcgctagc gccctcctcg 180
 ctctggcgtc tgtccggagg ctgcggcgcg ctgcggcagc ccctcagcaa caacaactcc 240
 tgettcggct tccactccgg gggcgctccac gtccgtctga ttccgtcgcc cgctaagcga 300
 gcgcaccaga ccgtgtctca gcgtcgacgc ggccgcgaat t 341

<210> 927
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 265, 298
 <223> n = A,T,C or G

<400> 927
 gcggccgcca cgctgggtttt gcatcttcag gagacgctcg tagccctcgc gcttctcctc 60
 ggccaattcg cggaagaagt ggctcacgcc ttccagagcc acatcatcgc ggtcgaaata 120
 gaagcccaga gagaggtagg tgtaggaggc ctgcaggtag aaattgacca ggctgttgac 180
 ggctgcctcc acgtcgggtg aataattctg acgaatctgg gagctcatgg ttggttgga 240
 agaaggagct aaccacaaaa acgngctgg caggctccag aagcaggaga tggccganaa 300
 gatggtcccg gaggttgcaa gcggagagga aatcggaggg cggtcggagg ctggaagaga 360
 gtccccgat ctgttcctgc caaacactgt tgaagcaaga gacagaccgc cggtcgacgc 420
 ggccgcgaat t 431

<210> 928
 <211> 538
 <212> DNA

<213> Homo sapiens

<400> 928

```
gtggcctgca aggccgcgga cagggcgagc accgagtcgt acattttgca gctcatcatc 60
cccgtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg 120
atgttgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga 180
cccaccagc ccagcagggc catggagaag cccagcaact gcaggcccga attggccatt 240
tccgccctca gaaaacactg ggggcgcccg gcgggagacc ctacagtaaa acaaacgaca 300
cttggggggc agccccacaa aagaaaactt gaggtggagt tttccggtca cccaaagaga 360
caaaaagggt ttgggccagg tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc 420
cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga ggggtggttc 480
agacaaaatt ggtggtcccc gaaggccagg cggttcacct cgggcgctct cggcgacc 538
```

<210> 929

<211> 69

<212> DNA

<213> Homo sapiens

<400> 929

```
ctcctcgacc accagcttgc actggcagta gttgagcagc agcggcgtga tctgcttgtc 60
cagctggat 69
```

<210> 930

<211> 544

<212> DNA

<213> Homo sapiens

<400> 930

```
gctttctcct tcttatagac gttccggacg ggcatgaccg gtccggtcag ctgggtggcc 60
agtttcagtt cttcagcaga actgtctccc ttcttggggg ccgagggtt cctggggaag 120
aggatgagtt tggagcggta ctcccttcagc cgctgcacgt tggcctgcag ggactccgtg 180
gacttggttc gcctcctcgg atccacagaa atgccgatgg tccggggccac cttcttgtga 240
atgccggcca ccctgagctc ctccaggctg aagccgcggc cggcgcgcac cttcgtgtgg 300
taccgaaccg tggggcagcg cacgatggg cggatgggac ccgacgcggg gcgcggggcg 360
atgcggcgcg ccttggcttg ccgggcctta cgtctgcgga tcttacgggc cggctggttg 420
aaccacgtgg ccacgcgccc ctgccagtcc ttgtggaagt ggggcttcaa gaccatgcca 480
ttccggctgg gcgccatggc tgcctacggc cctgcggctc ctgcggtcga cgcggcccg 540
aatt 544
```

<210> 931

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 538

<223> n = A,T,C or G

<400> 931

```
gttgctgcag tggcttgggc gtcaggaggg tcaactgaggg ggccacatga cccagccag 60
tgacagtgca gtggaggccg ttggggaagg aggcgttggc tgcaggagg cagatgggccc 120
ggatgtagcg ggagaagggt atgggtctgc tgagttggag gagtgcaatg tcgccctggg 180
agccctcctg gaggtagctg ggggtggggg tgatgtcctt cagggtgctg accttggcgt 240
```

```

cctcggagta ggagtctagc tgggtgggccc ccagcttgac ctcataggct tccttggtgt 300
gctcgctggg gaagcagtga gcagctgaca gcacccactg ctcagacacg agagagccac 360
cacacacatg gacgccttca taggtgatgc tgacctgcca gggccactga ccggcgactg 420
cactgctgcc acctgtgatg cgtgcttggg gggccacacc gcagggagct tctgcccctt 480
ccgctcctgt ccccgaccgg agtaatccaa gatagagcag aatggccaca gccccanct 540
gcccaggccc caggaccccc ttctgggcca tggcccagga caagggcccc tggggc 596

```

```

<210> 932
<211> 153
<212> DNA
<213> Homo sapiens

```

```

<400> 932
tctgtgctgg ggtctgggct ccgtggagag atgtgtaggg gtaatgagaa attgatcagc 60
aatgagaggt ggactctgag ccacctccct gacctgaat cattcaagcg aggagcagag 120
gagctcttga ctgggggacg gggatgtgag gat 153

```

```

<210> 933
<211> 112
<212> DNA
<213> Homo sapiens

```

```

<400> 933
tcaaacttgc cattgttaaa agcagccaca ttttggacct gcagtttcct cagaaatagt 60
taggattctg tgtcgacgcg gccgcgaatt ccaccacact ggactagtgg at 112

```

```

<210> 934
<211> 74
<212> DNA
<213> Homo sapiens

```

```

<400> 934
gtggccatcg agtccccatc ctggtcggcc acccggaac gccgctcgtc ccgaggctga 60
cgcggccgcg aatt 74

```

```

<210> 935
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<400> 935
gcgggcgcca tcttggtcct tttccaccat tttcagcccc tccagggttt ggaggaccgc 60
gcgggccaca ctcttgagc ctgggtgaa gtggctgggc atgacgccgt ttctctgacg 120
tccccatag atcttggtca tggagccaac cccagcgcca ccccgagggt acaggtgccg 180
cgctgtggaa gcagctcgcg tgtagaacca gttctcatcg tagggagcaa gctctttgtg 240
cttggccagc ttgacggtat ccacccattc ggggaatttc agcttcccgg actttttgag 300
gaaggctgcc agagctctga cgaactcctg ctggttcacg tcttttacag taactccagg 360
catcgtgceg cctccgcgcg 380

```

```

<210> 936
<211> 155
<212> DNA
<213> Homo sapiens

```

<400> 936
ctggcgcttt gaggatggtg tcctggaccc tgattacccc cgaaatatct ctgacggctt 60
cgatggcatc ccggacaacg tggatgcagc cttggccctc cctgcccata gctacagtgg 120
ccgggagcgg gtctacttct tcaaggggaa acagt 155

<210> 937
<211> 213
<212> DNA
<213> Homo sapiens

<400> 937
gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60
ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
tgtgtcgctg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
ctcctgccgc cgccgtcgac gcggccgcga att 213

<210> 938
<211> 261
<212> DNA
<213> Homo sapiens

<400> 938
gggtccgtca gggctgaaga cctgcccagg cacacaactc accacggccg gtagccatt 60
ctcgcagggtg acattcttca tgggggtccag tgacacctgg gggcccagct tgcagctgga 120
gatgtgggccc tctgtgccgg tgcagtccat ggagaatggc cagtagcgct gcttctctcg 180
tgaggcaaac attttgtaca ctttgggtatt gtatgtcctc tccccaggga agccaaacat 240
gccgcagacc acgcgggaat t 261

<210> 939
<211> 228
<212> DNA
<213> Homo sapiens

<400> 939
gctcaggctc caaagccagc aggaaagagg tagctcggga cgtggagccg ccgcccagggt 60
gcgccaggac cacctcggcc gtcaccttag ccagggtggct gcttaggtcc actgtgcgct 120
tcacgtcctc attgatcagc ggcgggtgcct cggaggaggc gctgcccggc gccggggccc 180
aagtcccaag caacaggagc agaaacaagc cggcggctgg cgcgtcga 228

<210> 940
<211> 97
<212> DNA
<213> Homo sapiens

<400> 940
tccttcaagt atgcttgggt gctggacaag ctgaaggcgg agcgtgagcg cggcatcacc 60
atcgacatct ccctctggaa gttcagagacc accaagt 97

<210> 941
<211> 200
<212> DNA
<213> Homo sapiens

<400> 941


```

ggacccaggg gcacaggctc ccagatgata gcccctctct gaatgagcac ccaggcaaca 60
cagtccgggg ctgtgtgtag caaacctgtc agcagctgcc tcctgggaca accaccccct 120
tacatgctat ctatctacca gacaaatgaa agctcttctt accccatctc ccaggcaccc 180
cccagcaagg gctctgaatt                                     200

```

```

<210> 942
<211> 209
<212> DNA
<213> Homo sapiens

```

```

<400> 942
gaggcggaga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagccg 60
ttgtggccct tgagggtgcc acgaagggtc atctgtctag tcatggcggc ggcgagagcg 120
tgtgtcgctg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
ctcctgccgc gtcgacgcgg ccgcgaatt                                     209

```

```

<210> 943
<211> 130
<212> DNA
<213> Homo sapiens

```

```

<400> 943
gtaaggagcc caagaaaaag tgatgccgcc tggcagactc gccatcccc aacgacacag 60
ggcaggacag cagaggacgt gctgggatta aacacattcc ccctcaaaaa aaaaaaaaaa 120
aaaaaaaaaa                                     130

```

```

<210> 944
<211> 563
<212> DNA
<213> Homo sapiens

```

```

<400> 944
gacagtccca gtactctttg ctcaactttc ggggccggcc tcgtttccgc ttcccgtgct 60
tgggatcccc cttcttgcag tcacgaaaac catcgctggg gaagagcttg ccatcagtgg 120
gatccaggtc cagtcactt ccaccggagt ctgaggagtg ggagctccga gaagcaccag 180
tccctgcggt ggagacgtca gagctgccgg gggagggggc tcctgcgcca cagctgccgg 240
ggtggtaggg gctggcttgc tgaccgtcgt ccagcagctc ctgggcaaag gggctgccct 300
ggtcaaaggg ccctgggtct agggcctcct ggaaggccat gccatccttc tccagcagct 360
caatgatcca actgagctca tcagaagagc tggaagttag gtctcgagc tgggcatgga 420
gttgggtcccc cagaggccca aagaccagac gcagctcctc aagggcacia ttgcagaggg 480
tggcgccatc catgtcacat cgtgagaagt caatggcgct tgcgtcgtac ttgttcttct 540
ccacttggtg gctgatccag tcc                                     563

```

```

<210> 945
<211> 637
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 629
<223> n = A,T,C or G

```

```

<400> 945

```

```

gctgagcccc ttactgctcc tcccaccaat gggctccctc acacccagga caggactaag 60
agggagctgg cggagaatgg aggtgtcctg cagctgggtg gccagagga gaagatgggc 120
ctcccgggct cagactcaca gaaagagctg gcctgaccac caggcacctc actggcactg 180
ctgacccatc ccagaaacac aatctcaggg acccgagcag ctccaaggac gagaggatac 240
agcagacaca acctaataga gagggcgcct gcagccttaa cctccacggc cttcgatact 300
tatgcaagcc tgggtgttgct cctgtcctca gagtcatcct gcgctcatgc cttttcccg 360
atgggttcac ctctggcagt tgccgcttca gtcttggcct tagcctcatc ttgaagtggg 420
tagctggcgg gagaggggtg ctgcgcccc tgctggccct gaggctgcag agttgggagc 480
aggacacctc acctgagttt catTTTTTTT catgtccaaa ccatgcacat actatagtcc 540
agaatcaaag cacttttgaa aagtggctgc atggccatcc tccagggccc aggaagtgtg 600
attccaaggg cctgtttaca tggcagcana atccatc 637

```

```

<210> 946
<211> 306
<212> DNA
<213> Homo sapiens

```

```

<400> 946
ggcgcgggct cctctccctt cggctgcccc gatgcggagc aagcggctcc cggggaagct 60
ggcgcgtcgg ccggtaccg cggcgagcac ttaggaaggc gcggggtggc cagttcacag 120
ctgcccgctc caagtggggg gaggcgaatt ggagaggagg aggaggggag gaaaaagagc 180
aaaagtgggg gcgcttgac cccttctctt ctctctctgc aaagaaaagt ttccgggggt 240
gaaactggcg agtctccgcy ccactgaagt ttccagtcag ttctgaggtc gacgcggccc 300
cgaatt 306

```

```

<210> 947
<211> 71
<212> DNA
<213> Homo sapiens

```

```

<400> 947
ggtccagagc tcccaggttt ccaggttgca gtccctccag tcccagagct cccagggttt 60
cggtttccag t 71

```

```

<210> 948
<211> 575
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 264, 344
<223> n = A,T,C or G

```

```

<400> 948
gcgccgcccc tttttttttt tttttgtcag caaaaatctt ttttaataaga gagtaggac 60
cagggttagt tttttagacc tcggctggcc cgtcggcctc tggcacgctc gaacttccgg 120
cccttgagc ggacgtaggg tttggtgtgg ctgtgcgggg ttcttggggc cttgccgaaa 180
tgccggtaca cctctcgccc cttgcgagga ccggagagca ggacagtgcc acagccctta 240
ggggagtcca gggccagctg gtcnaaagt aggatcttgc ccctgcccct gaggatgcgg 300
ctgcggggcc ggctggtcac gcgcagtga cataccttca gttngggtag ctctgaacc 360
cgcacatcat cagttatggt cccacaacc acggccgtct tgttttcccg gccagggaagc 420
ttcatcttcc ggatcatccg ggaaagggac agaggcggcc gggttggtgc actcataaac 480
aacctcttca acacaacctg gttgaatgtg gagttgggtc ttctggccag aaacctgtat 540

```

aacttgacca acagcctcag gtagatatcc tggct

575

<210> 949

<211> 294

<212> DNA

<213> Homo sapiens

<400> 949

```

gggggtttcca cgtagccccc aatgcccaca accaccatgg gtggtgtctc tacaatggtc 60
acagcctcca ccacctcctt cttgttcacc ttggatcccg gcctgtcgac ttcccgcacg 120
atgtgagtca tgccagcctt gtatcccagg aaggctgtga ggtggaccgg cttggacggg 180
tcatccttag ggaagctctt caccttccca cgatgcctgc tgetgcgctt ccgaggcagg 240
aagccgaggg acccatgtct gggagcggag aactttctgt gagacatcac gccca 294

```

<210> 950

<211> 693

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 556, 676

<223> n = A,T,C or G

<400> 950

```

ggcccccaat tccagctgcc acaccaccca cgggtgactgc attagttcgg atgtcataca 60
aaagctgatt gaagcaaccc tctacttttt ggctcgtgagc cttttgcttg gtgcagggtt 120
cattggctgt gttggtgacg ttgtcattgc aacagaatgg gggaaaggca ctgttctctt 180
tgaagtaggg tgagtcctca aaatccgtat agttggtgaa gccacagcac ttgagccctt 240
tcatggtggt gtccacact tgagtgaagt cttcctggga accataatct ttcttgatgg 300
caggcactac cagcaacgtc aggaagtgtc cagccattgt ggtgtacacc aaggcgacca 360
cagcagctgc aacctcagca atgaagatga ggaggaggat gaagaagaac gtcacgaggg 420
cacattgct ctcagtctta gcaccatagc agcccaggaa accaagagca aagaccacaa 480
cgccggctgc gatgaggaa tagcccacgt tgacaaactg catggcactg gacgacagt 540
gcccgaagat cttcanaaag gatgccccat cgattgacac ccagatgcc actgccaaaca 600
gggctgcacc acacagaaag atgagcaaat tgaagaggat catcatggtc ttaatgaagc 660
tgaagcactg catgngngct cctgttcagg gct 693

```

<210> 951

<211> 607

<212> DNA

<213> Homo sapiens

<400> 951

```

gtggcctgca aggcgcggga cagggcgagc accgagtcgt acattttgca gctcatcatc 60
cccgtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg 120
atgttgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga 180
cccaccagc ccagcagggc catggagaag ccagcaact gcaggcccga attggccatt 240
tccgccctca gaaaacactg ggggcgcggg gcgggagacc ctacagtaaa acaaacgaca 300
cttggggggg agccccacaa agaaaaactt gaggtggagt ttccgggtca cccaaagaga 360
caaaaagggt ttgggcccag tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc 420
cctccagtga agcgtggcc tcgcggcaca gggagttaga tacgccggga ggggtggttcc 480
agacaaaatt ggtggtcccc gaaggccagg cggttccctc cgggcgctct cggcgacct 540
aggcaaacaa aagggtggagg ggccgtctgg gcgcgtttct gagcgccggc aagtcccaaa 600

```

gtatcct

607

<210> 952

<211> 372

<212> DNA

<213> Homo sapiens

<400> 952

```

ggatgagggtc aacccgaagg ggtttcttga gaagcagtga cttcttctgg actttgggtc 60
tcttctttgt cagccctttt tccttggagc cagtgtccac gaagaagagt ttttcatttg 120
gggcctctga caacaagcca ccgctcgtgc gtcctgtag ccgcacgtct tccaggaact 180
ggtcaacctc cagccccagc ggctcctgag caagccgccg ccagccccgc ttcttatttc 240
ttgggcctcg ccgcgcgcgc ctcagcgtg ggtccaccga agtgggcgc agccccagga 300
aaccagaatc ggcatcgctt ttcgagctgc gcttcccacc aacgccactg cctgtcgacg 360
cgccgcgaa tt 372

```

<210> 953

<211> 275

<212> DNA

<213> Homo sapiens

<400> 953

```

gccatctgct gttttttctc agcaccttcc gtcttttgtt caatacttga gacgaccctc 60
caagatgacc tacgggctcc tacaacattt ttataagcaa ctgagagaag attcctctcc 120
tcattggata attcagctcc ttgctcagtt acagacttca tgcaggctgc catgtcatca 180
tatcgctcag cctgctcggc cagtttggcc ttctgaacca gctcattttt atccatgact 240
ggatgttctg tgtccggctg acgcggccgc gaatt 275

```

<210> 954

<211> 189

<212> DNA

<213> Homo sapiens

<400> 954

```

ggctccact tccctgcttc gatggagaag gcgagggtgt ccagcagggtg ccgtaggtcc 60
ctgaccacgc tgaccaccac cctgggccag cttctgacag tcccacctcc cagttgctgg 120
aggggtagtg gcctcacaga cggccctcct ctagatgcag tgggcccaga gtcgacgcgg 180
ccgcgaatt 189

```

<210> 955

<211> 189

<212> DNA

<213> Homo sapiens

<400> 955

```

gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60
ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
tgtgtcgctg cagcgacgag gatggcactg gatggcttag agaaactagc gtcgacgcgg 180
ccgcgaatt 189

```

<210> 956

<211> 216

<212> DNA

<213> Homo sapiens

<400> 956
 gcggccgcac gtgtaggcaa agaagcctgt gtccggcctc cagaccatgt tggcccggccc 60
 attcccgtg taaccgacga cagccttcag acgcagccac ccaccgctgg cgggaggcgg 120
 gcaagtgcc ttggcagagt gggggctgca gctgaccctg gcaggcgtga aggccttgca 180
 ggaagccagg taggtggtgc gtggggcccc cgaatt 216

<210> 957
 <211> 62
 <212> DNA
 <213> Homo sapiens

<400> 957
 ccagtgggag gctcccaccc tggtagatga acagcccctg gagaactacc tggatatgga 60
 gt 62

<210> 958
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 958
 ggattcggtc atattggaat tgctgttctc gatgtataca gtgcttgtaa aaggtttgaa 60
 gaactgggag tcaaatttgt gaagaaacct gatgatgga aaatgaaagg cctggcattt 120
 attcaagatc ctgatggcta ctggattgaa attttgaatc ctaacaaaat ggcaacctta 180
 atgtagtgtc gtgagaatt 199

<210> 959
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 959
 gaggcggaga ggatcatgtc cggaactgc ggggtagtag cgatctgggt taccagccg 60
 ttgtggccct tgaggggtgcc acgaagggtc atctgctcag tcatggcggc ggcgagagcg 120
 tgtgtcgctg cagcgacgag gatggcactg gatggcttag agaaactagc accacaacct 180
 ctctgccgc cgcgtcgacg cggccgcgaa tt 212

<210> 960
 <211> 177
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 79
 <223> n = A,T,C or G

<400> 960
 gacattttat gacctctccc aataggggca gaggtgagca cccctggtga aaagttaaga 60
 ctcaagtgagt ataaatacnc caagaagagc tgtggcttct ttcactgggtg tcctcagaaa 120
 ggctgtgagc agtgttgggtg gcataacctg cacagcatct agcaaagcac ctgaatt 177

<210> 961

<211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 203, 296
 <223> n = A,T,C or G

<400> 961
 gggcgctcctg gtgcttacca cctggaaact ggtgaggtgg tgggagaact cctggtggac 60
 cctagtggaa gccttccagt aatttcttga agctgagcgc tcaggtgagt agggcgacat 120
 ctggtggccg gttgttgaag gtcattgcag agaggaagga agccgaggag gggagcctgc 180
 agtgagggcg tcctgggggt ctncggttct caccaccctt gggccacgcc gtctagtcca 240
 cacctgagga gttggtcagg tagaaggggc ggatgaccgt gcggaagccg ttgaantgcc 300
 ctgccgggca ggggaaggag gagggtgctct tcgagctgtt ggtgtccagg gcaactggaa 360
 tcgcagcctt ccagccctcg aaatcgggtga cgtctgccac gaagagccct tcgcagagca 420
 tcagggcctt gttttcgtag gcaatggtgc gatctgagcc gccagacttg gtgaggccca 480
 ggacagggag 490

<210> 962
 <211> 159
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 53, 80, 82, 90
 <223> n = A,T,C or G

<400> 962
 gggtcggccc ggggtggttgc ggccacagcg cagcggcgga gagcggcgcc cancatgacg 60
 gcgatggcgg cgcgcgggcn gnggacagan agaagccggt gtaagctcgc gggttgctcc 120
 ggagcgggcg ggggccggac gtcgacgcgg ccgcgaatt 159

<210> 963
 <211> 217
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 79, 80
 <223> n = A,T,C or G

<400> 963
 gggtagagaa ccctgcggct gcgctttcgg tgcccgcgag aggcgctggg gcgcccggca 60
 ggggccgctg cgggctccnn gagagggctc aggtgaaga tctcaggacc ggagccccgc 120
 cggggtcccg ggatggtgga gggggccggg gtcggggcct gcaggatggt catggtcggg 180
 tggcagctgc gagagtgaca catggtgagc cgagcgt 217

<210> 964
 <211> 540
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 484

<223> n = A,T,C or G

<400> 964

```
gtggcctgca aggccgcgga cagggcgagc accgagtcgt acattttgca gctcatcatc 60
cccgtgctct gcgtgacgca gtccatccac agccccttgt acatggcctg ggccgtgatg 120
atgttgtcac ccgcatagga gctcatctgc cactgcggga tggcggtgca ggccaccaga 180
cccacccagc ccagcagggc catggagaag cccagcaact gcaggcccga attggccatt 240
tccgccctca gaaaacactg ggggcgcggg gcgggagacc ctacagtaaa acaaacgaca 300
cttggggggc agccccacaa aagaaaactt gaggtggagt tttccggtca ccaaagaga 360
caaaaagggt ttgggccagg tgaatgcaaa tcttgtcacc aaactacaca caaatcgacc 420
cctccagtga agcgatggcc tcgcggcaca gggagtagga tacgccggga gggtggttcc 480
aganaaaatt ggtggtcccc gaaggccagg cggttccctc cgggcgctct cggcgaccct 540
```

<210> 965

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 299, 307

<223> n = A,T,C or G

<400> 965

```
gcccacagtg gcttgtttcc gcagtgcgcg gccgtcagca cccaactctg gtccaccagg 60
acaccgcgc agtggaaacga gaggcggtt aagagcgaga cctgccaggg ctgcgagccg 120
cgcgcgcacg gggcgccata ggcttcgggg tccaagcgcg tgtcgttttg ggggagcagc 180
gccgcctctg cggcccagag ttgcgccatc agcagcggca gcagcttcgc cagagcccgg 240
gcgccagagg cggcggagag gtggagggtc ggagctctca tggccaggat ctgggagtn 300
ccgatangaa ggagggaggg g 321
```

<210> 966

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 238

<223> n = A,T,C or G

<400> 966

```
ggtggacacc accctcaaga gcctgagcca gcagatcgag aacatccgga gccagaggg 60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtgagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt 180
ctgcaacatg gagactgggt agacctgcgt gtacccact cagcccagtg tggccanaa 240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggtcc gacctgccg atgtggccat 360
```

```
<210> 967
<211> 650
<212> DNA
<213> Homo sapiens
```

<400>	967						
ggtggacacc	accctcaaga	gcctgagcca	gcagatcgag	aacatccgga	gcccagaggg	60	
cagccgcaag	aaccccgcgc	gcacctgccg	tgacctcaag	atgtgccact	ctgactggaa	120	
gagtggagag	tactggattg	accccaacca	aggctgcaac	ctggatgccca	tcaaagtctt	180	
ctgcaacatg	gagactggtg	agacctgcgt	gtaccccaact	cagcccagtg	tggcccagaa	240	
gaactggtac	atcagcaaga	accccaagga	caagaggcat	gtctggttcg	gcgagagcat	300	
gaccgatgga	ttccagttcg	agtatggcgg	ccagggctcc	gacctgcccg	atgtggccat	360	
ccagctgacc	ttcttgcgcc	tgatgtccac	cgaggctctc	cagaacatca	cctaccactg	420	
caagaacagc	gtggcctaca	tggaaccaga	gactggcaac	ctcaagaagg	cctctgctct	480	
cagaggctcc	aacgagatcg	agatccgcgc	cgagggcaac	agccgcttca	cctacagcgt	540	
cactgtcgat	ggctgcacga	gtcacaccgg	nagcctgggg	caagacagtg	attgaataca	600	
aaaccaccaa	gaccttcgcg	ctgcccataca	tcgatgtggc	ccccttggac		650	

```
<220>  
<221> misc_feature  
<222> 571  
<223> n = A,T,C or G
```

```
<210> 969
<211> 222
```


<212> DNA
<213> Homo sapiens

<400> 969
gaatgtcagg ggtgttgggg gctttggctg ggtcctgggt ctctgtgtag agacctggag 60
gcgcttggtt cttgggggtt tccaggattc cagcctcgta gctgatgtgc atgaggttct 120
catccatgct ccacgggttc ttgggagtga ccgggatggg aatcccggtg tgctttgcgt 180
actccatcag gtcattgcgg cccttgaacc gggtgtagaa tt 222

<210> 970
<211> 79
<212> DNA
<213> Homo sapiens

<400> 970
gcagggggcg cctggccttg ctccgctcca cgaggaggcc gccaaaccgca gggccgcgac 60
acggacggga agcaacgga 79

<210> 971
<211> 111
<212> DNA
<213> Homo sapiens

<400> 971
ggaaaatgca tctacccac ccaaccagca gcctcacttt aggctgcctt gtcccgggag 60
ccccattcgt cagccccacg cctcctccag gatccggggc cagctcgaat t 111

<210> 972
<211> 609
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 571
<223> n = A,T,C or G

<400> 972
ggtggacacc accctcaaga gcctgagcca gcagatcgag aacatccgga gccagaggg 60
cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt 180
ctgcaacatg gagactggtg agacctgctg gtacccact cagcccagtg tggcccagaa 240
gaactggtac atcagcaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggtccc gacctgccg atgtggccat 360
ccagctgacc ttctgcgcc tgatgtccac cgaggcctcc cagaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccagca gactggcaac ctcaagaagg cctgctcct 480
ccagggtccc aacgagatcg agatccgcgc cgagggcaac agccgcttca cctacagcgt 540
cactgtcgat ggctgcacga gtcacaccgg nagcctgggg caagacagtg attgaatata 600
aaaccacca 609

<210> 973
<211> 311
<212> DNA
<213> Homo sapiens

<400> 973
 ggggtttcca cgtagccac aatgcccaca accaccatgg gtggtgtctc tacaatggtc 60
 acagcctcca ccacctcctt cttgttcacc ttggatcccg gcctgtcgac ttcccgcacg 120
 atgtgagtca tgccagcctt gtatcccagg aaggctgtga ggtggaccgg cttggacggg 180
 tcacacctag ggaagctctt caccttccca cgatgcctgc tgctgcgctt ccgaggcagg 240
 aagccgaggg acccatgtct gggagcggag aactttctgt gagacatcac gcgtcgacgc 300
 ggccgcgaat t 311

<210> 974
 <211> 180
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 114, 127, 133, 138, 162
 <223> n = A,T,C or G

<400> 974
 gaggcggaga ggatcatgtc cgggaactgc ggggtagtag cgatctgggt taccagccg 60
 ttgtggccct tgagggtgcc acgaagggtc atctgctcag tcatggcggc ggcagagcgg 120
 tgtgtcnctg cancgacnag gatggcactg gatggcttag anaaactagc accacgtcga 180

<210> 975
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 975
 gcaccagccc cggggactat gtgtcagcg tctcagagaa ctgcgcgctc tcccactaca 60
 tcatcaacag cagcggcccg cggcgcgcg tgccaccgtc gcccgcccag cctccgcccg 120
 ggggtgagccc ctccagactc cgaataggag atcaagagtt tgattcattg cctgctttac 180
 tggaatt 187

<210> 976
 <211> 59
 <212> DNA
 <213> Homo sapiens

<400> 976
 ctggttccgc tgcattggacc tggacgggga cggcgccttg tccatgttcg agctcgagt 59

<210> 977
 <211> 66
 <212> DNA
 <213> Homo sapiens

<400> 977
 ggtccagagc tcccagggtt ccagggttgca gtccctccag tcccagagct cccagggttt 60
 cggttt 66

\<210> 978

<211> 114
 <212> DNA
 <213> Homo sapiens

<400> 978
 ggagctgatg cgggaaccgg gccactcgt gtaggagcgg ctgctgaagg cccggggggcc 60
 agaggtggac accttgtagg acttctgggt caccgcgcga cgcggccgcg aatt 114

<210> 979
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 979
 gacattttat gacctctccc aataggggca gaggtgagca cccctggtga aaagttaaga 60
 ctcaagttagt ataaatacgc caagaagagc tgtggcttct ttactggtg tcctcagaaa 120
 ggctgtgagc agtggttggt gcataacctgt cacagcatct agcaaagcac ctgaatt 177

<210> 980
 <211> 188
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41
 <223> n = A,T,C or G

<400> 980
 ggagctgatg cgggaaccgg gccactcgt gtaggagcgg ntgctgaagg cccggggggcc 60
 agaggtggac accttgtagg acttctgggt caccctgatg gacatggtag aggctggagt 120
 ggaggcaggc gggccgaacc aggcggagat cctagaagga gcggaagaagg tcgacgcggc 180
 cgcgaatt 188

<210> 981
 <211> 184
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 91
 <223> n = A,T,C or G

<400> 981
 gggccccagg aggcggggtg ggcacaggcc atggcgaggg tggggcacaa gagccccaga 60
 cccgggcggc ttgactga tgggtgcgg ntgggcacag gccatagtga ggggggcatg 120
 agagccccag accgggcggc ttgactga tgagctgcag ggcaggtcga cgcggccgcg 180
 aatt 184

<210> 982
 <211> 98
 <212> DNA
 <213> Homo sapiens

<400> 982
 tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac cgaaccctga accctacggt 60
 cccgacccgc gggcgaggcc gggtagctgg gctgggat 98

<210> 983
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 165
 <223> n = A,T,C or G

<400> 983
 gccggatatg gtcctgccgg tggcagccta tgggctgata ctgatggcca tgctgtggcg 60
 cggcctggcg cagggcgagg gtgccggctg gggcgcgctg ctcttcacgc tctctgatgg 120
 cgtgctggcc tgggacacct tcgcccagcc cctgccccat gccncctgg tgatcatgac 180
 cacctactat gctgcccagc tcctcatcac actgtcagcc ctgaggagcc cgggtgcccac 240
 gactgactga ctaggagact tgaagggccg gtgttcaggc cctctcctcc tgcaaggacc 300
 tgggcctccc agcccagccc agcctgagaa ataccctcag cagcgaagct tcctgacgcc 360
 tgtctgcagg cgccgctgcc gccgtcgctt ctggctgaag acgtttgagg acgatttgcg 420
 gaatt 425

<210> 984
 <211> 148
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5
 <223> n = A,T,C or G

<400> 984
 tcctnagcca gggagacagg gaccaggcag cacaggcctg ccagcaggag gatgccccac 60
 gagacagaag acggcattgt cgattcactg tcccaggcca gtggtgggtc gacgcggccc 120
 cgaattccac cacactggac tagtggtat 148

<210> 985
 <211> 461
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 238, 255, 403, 448, 451
 <223> n = A,T,C or G

<400> 985
 ggtggacacc accctcaaga gcctgagcca gcagatcgag aacatccgga gccagagggg 60
 cagccgcaag aaccccgccc gcacctgccg tgacctcaag atgtgccact ctgactggaa 120
 gagtggagag tactggattg accccaacca aggctgcaac ctggatgcca tcaaagtctt 180

```

ctgcaacatg gagactggtg agacctgcgt gtacccact cagcccagtg tggcccanaa 240
gaactggtac atcancaaga accccaagga caagaggcat gtctggttcg gcgagagcat 300
gaccgatgga ttccagttcg agtatggcgg ccagggtccc gaccctgccg atgtggccat 360
ccagctgacc ttctctgcgc tgatgtccac cgaggcctcc canaacatca cctaccactg 420
caagaacagc gtggcctaca tggaccanca nactggcaac c 461

```

```

<210> 986
<211> 138
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 45, 137
<223> n = A,T,C or G

```

```

<400> 986
gagcggctgc tgaaggcccg ggggccagag gtggacacct tgtangactt ctgggtcacc 60
ctgatggaca tggtagaggc aggagtggag gcaggcgggc cgaaccaggc ggagatccta 120
gaaggagcgg aggtcgnc 138

```

```

<210> 987
<211> 555
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 423
<223> n = A,T,C or G

```

```

<400> 987
gcggccgccc tttttttttt ttttttttag tggataact atatttattg tgccctgagag 60
gcaaggtgag ggaaaaatct caacagaagc aagtttgggg aaaatctgga gtccccagta 120
aaaagcagga aggtctctgc tgtactcatc acagaatggg agagagggct ctcaatagat 180
cattcccttt gtttctcccc tgggcttctt gagcttctcg aagttcttca ggatgatgtc 240
atataacaca gcataagcat tgcggatctc catgaccatc agccggatgt cccggtactc 300
tgccctcatc agctcgtgca ccagctgccg ataataccc acatggggct gcttggctgc 360
tttagtcaact gcatcaccac gctcagagaa atacttagag atttgagtgt ggaagccttc 420
tanccttggtg tggaggctgg tcatcagctc aaacaccttc tctggacag ccaactccaaa 480
attgttacca tctcaatcc gaggtatctg cagctgcaac caggtggtga ccaggttagag 540
ctgctcaatg acatc 555

```

```

<210> 988
<211> 318
<212> DNA
<213> Homo sapiens

```

```

<400> 988
gacggcgcgg gcgacctacg aacagctttg aggaagcccc gacagtggcg gcgtccagtg 60
cctccgaggg cggcgaccgc ggctccgcag cctctcccag ccgctccgcc cggttccggg 120
gagtcggctg ggacaaaatg gcctccctc cccctcagg gcttctcggc cgggacgctc 180
ccacgggcga gcaagcctgc tctgccgtcg aggaggcgca gcgggcgtga ggacagtctc 240
tctcccgagc ggaaactccc tgctagcacg cggcgagggc agcgaagaag gaccctaag 300

```

318

<211> 177

<212> DNA

<213> Homo sapiens

<400> 989

gacatittat	gacctctccc	aataggggca	gaggtgagca	cccctggtga	aaagttaaga	60
ctcagtgagt	ataaatacgc	caagaagagc	tgtggcttct	ttcactggtg	tcctcagaaa	120
ggctgtgagc	agtgttggtg	gcatacctgt	cacagcatct	agcaaagcac	ctgaatt	177

<210> 990

<211> 144

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> 11

$$\langle 223 \rangle \quad n = A, T, C \text{ or } G$$

<400> 990

```
gtgagcaccc ntggtgaaaa gttaagactc agtgagtata aatacgccaa gaagagctgt 60
ggcttctttc actggtgtcc tcagaaaggc tgtgagcagt gttggtggca tacctgtcac 120
agcatctaqc aaagcacctg aatt                                     144
```

<210> 991

<211> 659

<212> DNA

<213> Homo sapiens

<400> 991

ggtggacacc	accctcaaga	gcctgagcca	gcagatcgag	aacatccgga	gccagaggg	60
cagccgcaag	aaccccgccc	gcacctgccg	tgacctcaag	atgtgccact	ctgactggaa	120
gagtggagag	tactggattg	acccaacca	aggctgcaac	ctggatgcca	tcaaagtctt	180
ctgcaacatg	gagactggtg	agacctgcgt	gtacccct	cagcccagtg	tggcccagaa	240
gaactggtac	atcagcaaga	acccaagga	caagaggcat	gtctggttcg	gcgagagcat	300
gaccgatgga	ttccagttcg	agtatggcgg	ccagggtcc	gacctgccg	atgtggccat	360
ccagctgacc	ttcctgcgcc	tgatgtccac	cgaggcctcc	cagaacatca	cctaccactg	420
caagaacagc	gtggcctaca	tggaccagca	gactggcaac	ctcaagaagg	cctgtctcct	480
ccagggtctc	aacgagatcg	agatccgcgc	cgaggccaac	agccgcttca	cctacagcgt	540
cactgtcgat	ggctgcacga	gtcacaccgg	agcctggggc	aagacagtga	ttgaatacaa	600
aaccaccaaq	acctcccgc	tgcccatcat	cgatgtggcc	cccttggacg	ttggtgccc	659

<210> 992

<211> 226

<212> DNA

<213> Homo sapiens

<400> 992

tccgctgcac	tgggtttgcc	ggattcttgg	gcttcccaca	tactgcttca	cattcaggaa	60
gtttatctcc	aacagcctta	tttatccact	gcttcttata	atttaagggtg	tatactccat	120
ctccttctgt	gcgcagtttg	tagtagttct	tacactggtg	gcgaaccgag	tgctccacat	180

[illegible]

agccatgtgc aatctcgggg ggcttcgggc agccgtcatc tgcgat

226

<210> 993
<211> 160
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 8, 9, 15, 37, 41, 85, 87
<223> n = A,T,C or G

<400> 993
ctcgtgttng agcgnctgct gaaggcccgg gggccanagg nggacacctt gtacgacttc 60
tgggtcacc tgatggacat ggtanangct ggagtggagg caggcggggc gaaccaggcg 120
gagatcctag aaggagcgga ggtcgacgcg gccgcgaatt 160

<210> 994
<211> 622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 9
<223> n = A,T,C or G

<400> 994
nagcctganc cagcagatcg agaacatccg gagcccagag ggcagccgca agaacccccgc 60
ccgcacctgc cgtgacctca agatgtgcca ctctgactgg aagagtggag agtactggat 120
tgaccccaac caaggctgca acctggatgc catcaaagtc ttctgcaaca tggagactgg 180
tgagacctgc gtgtaccca ctacgcccag tgtggcccag aagaactggt acatcagcaa 240
gaaccccaag gacaagaggc atgtctgggt cggcgagagc atgaccgatg gattccagtt 300
cgagtatggc ggccaggggt ccgaccctgc cgatgtggcc atccagctga ccttcctgcg 360
cctgatgtcc accgaggcct ccagagaacat cacctaccac tgcaagaaca gcgtggccta 420
catggaccag cagactggca acctcaagaa ggccctgctc ctccaggggt ccaacgagat 480
cgagatccgc gccgagggca acagccgctt cacctacagc gtcactgtcg atggctgcac 540
gagtcacacc ggagcctggg gcaagacagt gattgaatac aaaaccacca agacctcccg 600
cctgcccata atcgatgtgg cc 622

<210> 995
<211> 158
<212> DNA
<213> Homo sapiens

<400> 995
aataagattt tgccagaggg gaaggctcga ttgtgctggt aataacttaa taatgacaaa 60
ataatgaggt gtatatgctt tacatgcaat gttatatagt gaattgttct gattcttaat 120
tgtaagtctg gtttttttat ctgtaagata attgtgtg 158

<210> 996
<211> 295
<212> DNA
<213> Homo sapiens

<400> 996

```
cgcccgcgtc gactctcgga gcggagacgg caaatggcgg acttcgacac ctacgacgat 60
cgggcctaca gcagcttcgg cggcggcaga gggccccgcg gcagtgctgg tggccatggt 120
tcccgtagcc agaaggagtt gccacagag cccccctaca cagcatacgt aggaaatcta 180
cctttcaata cggttcaggg cgacatagat gctatcttta aggatctcag cataaggagt 240
gtacggctag tcagagacaa agacacagat aaatttaaag gattctgcta tgtag      295
```

<210> 997

<211> 125

<212> DNA

<213> Homo sapiens

<400> 997

```
cgcccgccct tttttttttt ttttttaagg ttttttggt gtaagtttat tcaatgcaaa 60
agaatcctct ccaattttac tgagggtggc gaccacgtcc acgaccaa at ccgcctctaa 120
actgg      125
```

<210> 998

<211> 152

<212> DNA

<213> Homo sapiens

<400> 998

```
gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccggggggcca 60
gagggtggaca ccttgtagga ctctcggggt accctgatgg acatggtaga ggctggagtg 120
gaggcaggcg ggccgaacca ggcgggagatc ct      152
```

<210> 999

<211> 119

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 23, 29, 54, 76, 77

<223> n = A,T,C or G

<400> 999

```
taaagcaacc actaaaccac ctncagcang agaaagcagc agagagctct tcanacagct 60
cagactctga cagctnngag gatgatgaag ctcttcttaa gccagctggt accaccaag 119
```

<210> 1000

<211> 209

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 7

<223> n = A,T,C or G

<400> 1000

```
ccctcnngag gcggagagga tcatgtccgg gaactgcggg gtagtagcga tctgggttac 60
```


ccagccgttg tggcccttga ggggtgccag aagggtcac tgctcagtc tggcggcggc 120
 gagagcgtgt gtcgctgcag cgacgaggat ggcactggat ggcttagaga aactagcacc 180
 acaacctctc ctgcgtcgac gcggccgcg 209

<210> 1001
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1001
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
 agccgcaaga accccgcccc cactgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactggtga gacctgcgtg taccocactc agcccagtgt ggcccagaag 240
 aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
 accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
 cagctgacct tctgcgcct gatgtccacc 390

<210> 1002
 <211> 613
 <212> DNA
 <213> Homo sapiens

<400> 1002
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
 agccgcaaga accccgcccc cactgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactggtga gacctgcgtg taccocactc agcccagtgt ggcccagaag 240
 aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
 accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
 cagctgacct tctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
 aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
 cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
 actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
 accaccaaga cct 613

<210> 1003
 <211> 639
 <212> DNA
 <213> Homo sapiens

<400> 1003
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
 agccgcaaga accccgcccc cactgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactggtga gacctgcgtg taccocactc agcccagtgt ggcccagaag 240
 aactggtaca tcagcaagaa cccaaggac aagaggcatg tctggttcgg cgagagcatg 300
 accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
 cagctgacct tctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
 aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
 cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
 actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
 accaccaaga cctccgcct gcccatcatc gatgtggcc 639

```
<210> 1007
<211> 575
<212> DNA
<213> Homo sapiens
```

<220>
 <221> misc_feature
 <222> 248, 372
 <223> n = A,T,C or G

<400> 1007
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag ccagaggggc 60
 agccgcaaga accccgcccc cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga cccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtgt ggcccagaag 240
 aactggtncatcagcaagaa cccaaggac aagaggcatg tctgggttcgg cgagagcatg 300
 accgatggat tccagttcga gtatggcggc cagggtcccg accctgccga tgtggccatc 360
 cagctgacct tncctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
 aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
 cagggtccca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
 actgtcgatg gctgcacgag tcacaccgga gcctg 575

<210> 1008
 <211> 62
 <212> DNA
 <213> Homo sapiens

<400> 1008
 cgatggagcg tgggtaggga ggggtccacag tgtccactcg ccgtgtgcga aggttgactc 60
 gg 62

<210> 1009
 <211> 180
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 154
 <223> n = A,T,C or G

<400> 1009
 gagctgatgc gggaaccggg ccactcgtg taggagcggc tgctgaaggc ccggggggcca 60
 gaggtggaca ccttgtagga cttctgggtc accctgatgg acatggtaga ggcaggagtg 120
 gaggcaggcg ggccgaacca ggcggagatc ctanaaggag cggaggtcga cgcggccgcg 180

<210> 1010
 <211> 169
 <212> DNA
 <213> Homo sapiens

<400> 1010
 gaggcggcac aggtcacgca tggccagcac ggcagccatg gcgctgcgct cgctcatggt 60
 tctcgccagg taggtctggg ccaggttctt gagtttgaag ctgctggccc cgggcacacg 120
 ctcccggatg agaggcaggg cagccaggaa gcccgagatg gcctcctgg 169

<210> 1011

<211> 170
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 78, 79
 <223> n = A,T,C or G

<400> 1011
 gagctgatgc gggaaccggg ccactcgtg taggagcggc tgctgaaggc ccgggggcca 60
 gaggtggaca ctttgtanna cttctgggtc accctgatgg acatggtaga ggctggagtg 120
 gaggcaggcg ggccgaacca ggcggagatc ctagaaggag cggaggtcga 170

<210> 1012
 <211> 344
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 231, 235, 238, 245, 246, 251, 255, 263, 264, 270, 276, 302,
 313, 316, 317, 325
 <223> n = A,T,C or G

<400> 1012
 gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag ccagaggggc 60
 agccgcaaga accccgcccg cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
 agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
 tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtgg nccanaanaa 240
 ctggnncatc ngcangaacc ccnnggacan gaggcntgtc tggttcggcg agagcatgac 300
 cnatggattc canttinnagt atggnngcca gggctccgac cctg 344

<210> 1013
 <211> 157
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 21, 22, 127, 136, 137
 <223> n = A,T,C or G

<400> 1013
 atagaacccc gccgcacct nncgtgacct caagatgtgc cactctgact ggaagagtgg 60
 agagtactgg attgacccca accaaggctg caacctggat gccatcaaag tcttctgcaa 120
 catggnact ggtgannct gcgtgtaccc cactcag 157

<210> 1014
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 1014

```

gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgcccc cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggctccg accctgccga tgtggccatc 360
cagctgacct tcctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgcct g                                     621

```

```

<210> 1015
<211> 104
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 91, 95
<223> n = A,T,C or G

```

```

<400> 1015
gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgcccc cacctgccgt nctcnagatg tgcc                                     104

```

```

<210> 1016
<211> 101
<212> DNA
<213> Homo sapiens

```

```

<400> 1016
gctgaccagg cggaaagagg agctgcccac gaaggggggc accctgggag ggatccctgg 60
ggagcccgcc gtggaccacc gagatgtgga tgagctgctg g                                     101

```

```

<210> 1017
<211> 172
<212> DNA
<213> Homo sapiens

```

```

<400> 1017
acattttatg acctctccca atagggggcag aggtgagcac ccctggtgaa aagttaagac 60
tcagtgahta taaataacgc aagaagagct gtggcttctt tcaactggtgt cctcagaaag 120
gctgtgagca gtgttggtgg catacctgtc acagcatcta gcaaagcacc tg                                     172

```

```

<210> 1018
<211> 637
<212> DNA
<213> Homo sapiens

```

```

<400> 1018
gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgcccc cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc 180

```

```

tgcaacatgg agactggtga gacctgcgtg taccacctc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctgggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcgcc cagggctccg accctgccga tgtggccatc 360
cagctgacct tcctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgcct gcccacatc gatgtgg 637

```

```

<210> 1019
<211> 623
<212> DNA
<213> Homo sapiens

```

```

<400> 1019
gtggacacca cctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga acccgcccc cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga ccccaaccaa gggtgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccacctc agcccagtggt ggcccagaag 240
aactggtaca tcagcaagaa ccccaaggac aagaggcatg tctgggttcgg cgagagcatg 300
accgatggat tccagttcga gtatggcgcc cagggctccg accctgccga tgtggccatc 360
cagctgacct tcctgcgcct gatgtccacc gaggcctccc agaacatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggctcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgcct gcc 623

```

```

<210> 1020
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 1020
ggtagagaac cctgcggctg cgcttttcggt gcccgcgaga ggcgctgggg cgcccggcag 60
gggcccgtgc gggctccggg agagggtcga aggtgaagat ctcaggaccg gagccccgcc 120
gggggtcccgg gatggtggag ggggcccggg tcggggcctg caggatggtc atgggtcgggt 180
ggcagctgcg agagtgcac atggtgagcc gagcggagggt cgacgcggcc gcg 233

```

```

<210> 1021
<211> 180
<212> DNA
<213> Homo sapiens

```

```

<400> 1021
gagctgatgc gggaaccggg cccactcgtg taggagcggc tgctgaaggc ccggggggcca 60
gaggtggaca ctttgtagga cttctgggtc accctgatgg acatggtaga ggcaggagtg 120
gaggcaggcg ggccgaacca ggcggagatc ctagaaggag cggaggtcga cgcggccgcg 180

```

```

<210> 1022
<211> 636
<212> DNA
<213> Homo sapiens

```

<400> 1022

```

gtggacacca ccctcaagag cctgagccag cagatcgaga acatccggag cccagagggc 60
agccgcaaga accccgcccg cacctgccgt gacctcaaga tgtgccactc tgactggaag 120
agtggagagt actggattga ccccaaccaa ggctgcaacc tggatgccat caaagtcttc 180
tgcaacatgg agactggtga gacctgcgtg taccctactc agcccagtgt ggcccagaag 240
aactggtaca tcagcaagaa cccaaggac aagaggcatg tctgggttcg cgagagcatg 300
accgatggat tccagttcga gtatggcggc cagggtctcg accctgccga tgtggccatc 360
cagctgacct tctgcgcct gatgtccacc gaggcctccc agaaccatcac ctaccactgc 420
aagaacagcg tggcctacat ggaccagcag actggcaacc tcaagaaggc cctgctcctc 480
cagggtcca acgagatcga gatccgcgcc gagggcaaca gccgcttcac ctacagcgtc 540
actgtcgatg gctgcacgag tcacaccgga gcctggggca agacagtgat tgaatacaaa 600
accaccaaga cctcccgcct gcccatcatc gatgtg                                     636

```

<210> 1023

<211> 162

<212> DNA

<213> Homo sapiens

<400> 1023

```

aggcgagag gatcatgtcc ggaactgcg gggtagtagc gatctgggtt acccagccgt 60
tgtggccctt gaggttgcca cgaagggtca tctgctcagt catggcggcg gcgagagcgt 120
gtgtcgctgc agcgacgagg atggcacgtc gacgcggccg cg                                     162

```

<210> 1024

<211> 124

<212> DNA

<213> Homo sapiens

<400> 1024

```

tccactagtc cagtgtggtg gaattcgcgg ccgcgtcgac gccgagcagg aggcgccatc 60
atgggagtgg acatccgcc aacaaggac cgaaagggtc ggcgcaagga gccaagagc 120
cagg                                              124

```

<210> 1025

<211> 635

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 618

<223> n = A,T,C or G

<400> 1025

```

gcccccaatt ccagctgcc aaccacccac ggtgactgca ttagttcgga tgtcatacaa 60
aagctgattg aagcaaccct ctactttttg gtgctgagcc ttttgcttg tgacaggtttc 120
attggctgtg ttggtgacgt tgtcattgca acagaatggg ggaaaggcac tgttctcttt 180
gaagtagggg gagtccctca aatccgtata gttggtgaag ccacagcact tgagcccttt 240
catggtggtg ttccacactt gagtgaagtc ttctgggaa ccataatctt tcttgatggc 300
aggcactacc agcaacgtca ggaagtgtc agccattgtg gtgtacacca aggcgaccac 360
agcagctgca acctcagcaa tgaagatgag gaggaggtg aagaagaacg tcacgagggc 420
acacttgctc tcagtcttag caccatagca gccaggaaa ccaagagcaa agaccacaac 480
gccggtgcg atgaggaagt agcccacgtt gacaaactgc atggcactgg acgacagtgg 540
cccgaagatc ttcagaaagg atgcccacac gattgacacc cagatgccca ctgccaaacg 600

```

ggctgcacca cacagaanga tgagcaaatt gaaga

635

<210> 1026

<211> 355

<212> DNA

<213> Homo sapiens

<400> 1026

```
ccatctgctg ttttttctca gcaccttccg tcttttggtc aatacttgag acgacctcc 60
aagatgacct acgggctcct acaacatttt tataagcaac tgagagaaga ttctctcct 120
cattggataa ttcagctcct tgctcagtta cagacttcat gcaggctgcc atgtcatcat 180
atcgctcagc ctgctcggcc agtttggcct tctgaaccag ctcatTTTTA tccatgactg 240
gatgttctgt gtccggagtgt ggtggtggcg gcggacggac gggtcagca gtctctgggc 300
ggcggcggcg gcagcagcgg cgaggctgag actctgtccc gtcgacgcgg ccgcg 355
```

<210> 1027

<211> 148

<212> DNA

<213> Homo sapiens

<400> 1027

```
tgccacctg gtgccatga ctgtggcctt ggtgcccagg aggggccaga gctggtgggt 60
gctggctgtt cttctccctc tggccctgag cccctggctc tggagctgcc tgtaggggct 120
gaagggccat cccactgcc ttctccgg 148
```

<210> 1028

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 439

<223> n = A,T,C or G

<400> 1028

```
ggcgtcctgg tgcttaccac ctggaaactg gtgaggtggt gggagaactc ctggtggacc 60
ctagtgaag ccttcagta atttcttgaa gctgagcgt caggtgagta gggcgacatc 120
tggtggccgg ttgttgaagg tcattgcaga gaggaaggaa gccgaggagg ggagcctgca 180
gtgagggcgt cctggggttc tccggttctc accacccttg ggccacgccg tctagtccac 240
acctgaggag ttggtcaggt agaagggcg gatgaccgtg cggaagccgt tgaagtgcc 300
tgccgggcag gggaaggagg aggtgctctt cgagctgttg gtgtccagg cactgggaat 360
cgcagccttc cagccctcga aatcggtgac gtctgccacg aagagccctt cgcagagcat 420
cagggtttt ttttcgtang caatggtgcg atctgagccg ccagacttgg tgaggcca 479
```

<210> 1029

<211> 64

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5, 6

<223> n = A,T,C or G

total = 102600

<210>	1033
<211>	241
<212>	DNA

<213> Homo sapiens

<400> 1033

```
caagggtcat gatggcagga gtaatcagag gtgttcttgt gttgtgataa ggggtggagag 60
gttaaaggag ccacttatta gtaatgttga tagtagaatg atggctaggg tgacttcata 120
tgagattgtt tgggctactg ctgcagtgcc gccgatcagg gcgtagtttg agtttgatgc 180
tcaccctgat cagaggattg agtaaaccggc taggctagag gtggctagaa taaataggag 240
g 241
```

<210> 1034

<211> 234

<212> DNA

<213> Homo sapiens

<400> 1034

```
ccacagctgg gcgcttcacc cagtgggtact ttggtgccta ctccattgtg gcgggagctgt 60
ttgtgtgcct gctggagtag ccccggggga agaggaagaa gggctccacc atggagcgct 120
ggggacagaa gcacatgacc gccgtggtga agctgttcgg gccctttacc aggaattact 180
atgttcgggc cgtcctgcat ctctgtctct cgggtgccgc cggcttcctg ctgg 234
```

<210> 1035

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 39, 42, 48, 113, 135, 137, 151, 185, 219, 228, 250, 254,
268, 271, 275, 307, 344, 355, 358, 369, 376, 404, 409, 416,
427

<223> n = A,T,C or G

<400> 1035

```
gtacaagctt tttttttttt tttttttttt ttttttttng gntacggnag cactttttatt 60
tttccttaca caatgacgtg ttgctggggc ctaatgttct cacataacag tanaaaacca 120
aaatttggtt tcatntnttc aaagaatcga naattgctga caaaaaaac cttacataaa 180
ttaanaatga atacatttac aggcgtaaat gcaaaccgnt tccaactnaa agcaagtaac 240
agccacgggn gtnttgcca aagacatnag ntaanaaagg aaactgggtc ctacggcttg 300
gacttttcaa ccctgacaga cccgcaagac aaaacaactg gtntttgcca gcctntanag 360
aatcccaana acactnagcc ctgacacgtt aataccctgc acanatcana ggctgntggc 420
cacacanact cacc 434
```

<210> 1036

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1036

```
aaagccatgg gaaccagat caccagatcc ggagcctgac tctagcccct gagccacctg 60
ttgccctaac accctgtctg actctctccc gctgcagcag ccagtccttc ctgcactcca 120
gcaactccag ccatcagtc tcttcagat ccttggaag tccagccaac tcttcctcca 180
gcctccacag ccttggtca gtgtccctgt gtacaagacc cagtgacttc caggctccca 240
gaaacccac cctaaccatg ggccaacca gaacacccca ctctccacca ctgg 294
```

```
<220>
<221> misc_feature
<222> 55, 56, 64, 65, 258, 314, 513
<223> n = A,T,C or G
```

```
<210> 1038
<211> 451
<212> DNA
<213> Homo sapiens
```

```
<210> 1039
<211> 533
<212> DNA
<213> Homo sapiens
```

<210> 1040

<211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 149, 228
 <223> n = A,T,C or G

<400> 1040
 tgcctgctgg ggattactcg atcaaaacct tccttccctg gctacttccc ttccctcccg 60
 ggcccttccctt ttgaggagct ggaggggtgg ggagctagag gccacctatg ccagtgtca 120
 aggttactgg gagtgtgggc tgcccttgnt gcctgcaccc ttccctcttc cctctccctc 180
 tctctgggac cactgggtac aagagatggg atgctccgac agcgtctnca attatgaaac 240
 taatcttaac ccctgtgctg tcagataccc tgtttctgga gtcacatcag tgaggaggga 300
 tgtgggtaag aggagca 317

<210> 1041
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 45, 88, 184, 236, 238
 <223> n = A,T,C or G

<400> 1041
 ccaagacagt ccacttacat ggatcgtgtc ttcaagcaat ttgtncagc catgggttgag 60
 catggacatg aactctctta acatgtantt ctttgggtgc attttgtctg aaccacaatt 120
 gtgaaggcag ctacagcttag tgcacaaatt ttaactgttg tatataaagc aaataagtca 180
 gcanatgggt gaagaggtcc agaatgatat gcaaaaacta ctttttagag aaacananca 240
 actttgtagc aacaaattaa atatagtatt agattgttac ttacgtagat tttattttta 300
 ctatgcctta ccaagtacat ccttaaaca agtagtatgt acatgaaatt gcacttaacc 360
 aaaactattg tgtaaaacaa atttttaatt cctcagggtt ttaattt 407

<210> 1042
 <211> 519
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 461
 <223> n = A,T,C or G

<400> 1042
 ccaccacacc caattccttg ctggtatcat ggcagccgcc acgtgccagg attaccggct 60
 acatcatcaa gtatgagaag cctgggtctc ctcccagaga agtggtcctt cggccccgcc 120
 ctggtgtcac agaggctact attactggcc tggaaacggg aaccgaatat acaatttatg 180
 tcattgccct gaagaataat cagaagagcg agcccctgat tggaaaggaaa aagacagacg 240
 agcttccccca actggtaacc ctccacacc ccaatcttca tggaccagag atcttgatg 300
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<210> 1043
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<212> DNA
<213> Homo sapiens

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<210> 1044
<211> 384
<212> DNA
<213> Homo sapiens

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gggcagccag gtcactctcg aagg 384

<210> 1045
<211> 456
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 118, 119
<223> n = A,T,C or G

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<210> 1046
<211> 136
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 27, 80, 97, 104
 <223> n = A,T,C or G

<400> 1046
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<210> 1047
 <211> 453
 <212> DNA
 <213> Homo sapiens

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<210> 1048
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 <212> DNA
 <213> Homo sapiens

<220>
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<210> 1049
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 <212> DNA
 <213> Homo sapiens

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<212> DNA
<213> Homo sapiens
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<210> 1051

<211> 1745

<212> DNA

<213> Homo sapiens

<400> 1051

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 <212> DNA
 <213> Homo sapiens

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 <211> 480
 <212> DNA

<213> Homo sapiens

<400> 1053

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<210> 1054

<211> 1078

<212> DNA

<213> Homo sapiens

<400> 1054

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<210> 1055

<211> 2872

<212> DNA

<213> Homo sapiens

<400> 1055

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<211> 3311
<212> DNA
<213> Homo sapiens
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<210> 1059

<211> 440

<212> PRT

<213> Homo sapiens

<400> 1059

Met Val Gly Lys Ile Glu Gly Glu Asn Ser Lys Ile Gly Asp Asp Asn
5 10 15

Glu Asn Leu Thr Phe Lys Leu Glu Val Asn Glu Leu Ser Gly Lys Leu
20 25 30

Asp Asn Thr Asn Glu Tyr Asn Ser Asn Asp Gly Lys Lys Leu Pro Gln
35 40 45

Gly Glu Ser Arg Ser Tyr Glu Val Met Gly Ser Met Glu Glu Thr Leu
50 55 60

Thr Thr Phe Ile Asp Ser Val Glu Asp Ser Glu Ser Glu Glu Glu Glu
355 360 365

Glu Gly Lys Ser Ser Glu Thr Gly Lys Val Lys Thr Thr Ser Leu Thr
370 375 380

Glu Lys Lys Ala Ser Arg Arg Gln Lys Glu Ile Pro Phe Ser Tyr Leu
385 390 395 400

Val Gly Asp Ser Gly Lys Lys Lys Leu Val Lys His Gln Val Val His
405 410 415

Lys Thr Gln Glu Glu Glu Thr Ala Val Pro Thr Ser Gln Gly Thr
420 425 430

Gly Thr Pro Cys Leu Thr Leu Cys
435 440

<210> 1060

<211> 230

<212> PRT

<213> Homo sapiens

<400> 1060

Met Asn Glu Met Tyr Leu Arg Cys Asp His Glu Asn Gln Tyr Ala Gln
5 10 15

Trp Met Ala Ala Cys Met Leu Ala Ser Lys Gly Lys Thr Met Ala Asp
20 25 30

Ser Ser Tyr Gln Pro Glu Val Leu Asn Ile Leu Ser Phe Leu Arg Met
35 40 45

Lys Asn Arg Asn Ser Ala Ser Gln Val Ala Ser Ser Leu Glu Asn Met
50 55 60

Asp Met Asn Pro Glu Cys Phe Val Ser Pro Arg Cys Ala Lys Arg His
65 70 75 80

Lys Ser Lys Gln Leu Ala Ala Arg Ile Leu Glu Ala His Gln Asn Val
85 90 95

Ala Gln Met Pro Leu Val Glu Ala Lys Leu Arg Phe Ile Gln Ala Trp
100 105 110

Gln Ser Leu Pro Glu Phe Gly Leu Thr Tyr Tyr Leu Val Arg Phe Lys
115 120 125

Gly Ser Lys Lys Asp Asp Ile Leu Gly Val Ser Tyr Asn Arg Leu Ile
130 135 140

Lys Ile Asp Ala Ala Thr Gly Ile Pro Val Thr Thr Trp Arg Phe Thr

T002500160T

Arg Asn Leu Cys Glu Trp Met Arg Lys Pro Ala Gln Gln Ser Leu Gly
 165 170 175
 Ser Gln Val Lys Thr Arg Thr Lys Asp Lys Tyr Arg Val Val Tyr Thr
 180 185 190
 Asp His Gln Arg Leu Glu Leu Glu Lys Glu Phe His Tyr Ser Arg Tyr
 195 200 205
 Ile Thr Ile Arg Arg Lys Ala Glu Leu Ala Ala Thr Leu Gly Leu Ser
 210 215 220
 Glu Arg Gln Val Lys Ile Trp Phe Gln Asn Arg Arg Ala Lys Glu Arg
 225 230 235 240
 Lys Ile Asn Lys Lys Lys Leu Gln Gln Gln Gln Gln Gln Pro Pro
 245 250 255
 Gln Pro Pro Pro Pro Pro Pro Gln Pro Pro Gln Pro Gln Pro Gly Pro
 260 265 270
 Leu Arg Ser Val Pro Glu Pro Leu Ser Pro Val Ser Ser Leu Gln Ala
 275 280 285
 Ser Val Ser Gly Ser Val Pro Gly Val Leu Gly Pro Thr Gly Gly Val
 290 295 300
 Leu Asn Pro Thr Val Thr Gln
 305 310

<210> 1062
 <211> 237
 <212> PRT
 <213> Homo sapiens

<400> 1062
 Met Ala Gly Val Ser Ala Cys Ile Lys Tyr Ser Met Phe Thr Phe Asn
 5 10 15
 Phe Leu Phe Trp Leu Cys Gly Ile Leu Ile Leu Ala Leu Ala Ile Trp
 20 25 30
 Val Arg Val Ser Asn Asp Ser Gln Ala Ile Phe Gly Ser Glu Asp Val
 35 40 45
 Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile Ala Val Gly Ala
 50 55 60
 Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly Ala Ile Lys Glu
 65 70 75 80
 Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu Leu Leu Ile Leu
 85 90 95

10025360 "12901"

Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys
100 105 110

Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn Thr Lys Leu Leu
115 120 125

Ser Ala Thr Gly Glu Ser Glu Lys Gln Phe Gln Glu Ala Ile Ile Val
130 135 140

Phe Gln Glu Glu Phe Lys Cys Cys Gly Leu Val Asn Gly Ala Ala Asp
145 150 155 160

Trp Gly Asn Asn Phe Gln His Tyr Pro Glu Leu Cys Ala Cys Leu Asp
165 170 175

Lys Gln Arg Pro Cys Gln Ser Tyr Asn Gly Lys Gln Val Tyr Lys Glu
180 185 190

Thr Cys Ile Ser Phe Ile Lys Asp Phe Leu Ala Lys Asn Leu Ile Ile
195 200 205

Val Ile Gly Ile Ser Phe Gly Leu Ala Val Ile Glu Ile Leu Gly Leu
210 215 220

Val Phe Ser Met Val Leu Tyr Cys Gln Ile Gly Asn Lys
225 230 235

<210> 1063

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1063

Met Ala Ala Arg Ala Leu Cys Met Leu Gly Leu Val Leu Ala Leu Leu
5 10 15

Ser Ser Ser Ser Ala Glu Glu Tyr Val Gly Leu Ser Ala Asn Gln Cys
20 25 30

Ala Val Pro Ala Lys Asp Arg Val Asp Cys Gly Tyr Pro His Val Thr
35 40 45

Pro Lys Glu Cys Asn Asn Arg Gly Cys Cys Phe Asp Ser Arg Ile Pro
50 55 60

Gly Val Pro Trp Cys Phe Lys Pro Leu Gln Glu Ala Glu Cys Thr Phe
65 70 75 80

<210> 1064

<211> 323

<212> PRT

1002520-1200T

<213> Homo sapiens

<400> 1064

Met Ala Tyr Val Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro Thr
 5 10 15

Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser
 20 25 30

Val Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg Phe Phe Val
 35 40 45

Asn Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe
 50 55 60

Asn Pro Arg Phe Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln
 65 70 75 80

Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys Arg Ser Met Pro Phe Lys
 85 90 95

Lys Gly Ala Ala Phe Glu Leu Val Phe Ile Val Leu Ala Glu His Tyr
 100 105 110

Lys Val Val Val Asn Gly Asn Pro Phe Tyr Glu Tyr Gly His Arg Leu
 115 120 125

Pro Leu Gln Met Val Thr His Leu Gln Val Asp Gly Asp Leu Gln Leu
 130 135 140

Gln Ser Ile Asn Phe Ile Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro
 145 150 155 160

Pro Met Met Pro Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu
 165 170 175

Asn Ser Leu Pro Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val
 180 185 190

Pro Tyr Phe Gly Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile
 195 200 205

Ile Ile Lys Gly Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn
 210 215 220

Phe Lys Val Gly Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg
 225 230 235 240

Met Gly Asn Gly Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp
 245 250 255

Gly Ser Glu Glu Lys Lys Ile Thr His Asn Pro Phe Gly Pro Gly Gln
 260 265 270

TOGETHER

Phe Phe Asp Leu Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr
 275 280 285

Ala Asn Gly Gln His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe
 290 295 300

Gln Arg Val Asp Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr
 305 310 315 320

Val Gln Ile

<210> 1065

<211> 957

<212> PRT

<213> Homo sapiens

<400> 1065

Arg Asn Arg Pro His Thr Thr Ala Phe Pro Gly Ser Thr Thr Met Pro
 5 10 15

Gly Val Ser Gln Glu Ser Thr Ala Ser His Ser Ser Pro Gly Ser Thr
 20 25 30

Asp Thr Thr Leu Ser Pro Gly Ser Thr Thr Ala Ser Ser Leu Gly Pro
 35 40 45

Glu Ser Thr Thr Phe His Ser Gly Pro Gly Ser Thr Glu Thr Thr Leu
 50 55 60

Leu Pro Asp Asn Thr Thr Ala Ser Gly Leu Leu Glu Ala Ser Thr Pro
 65 70 75 80

Val His Ser Ser Thr Gly Ser Pro His Thr Thr Leu Ser Pro Ala Gly
 85 90 95

Ser Thr Thr Arg Gln Gly Glu Ser Thr Thr Phe Gln Ser Trp Pro Asn
 100 105 110

Ser Lys Asp Thr Thr Pro Ala Pro Pro Thr Thr Thr Ser Ala Phe Val
 115 120 125

Glu Leu Ser Thr Thr Ser His Gly Ser Pro Ser Ser Thr Pro Thr Thr
 130 135 140

His Phe Ser Ala Ser Ser Thr Thr Leu Gly Arg Ser Glu Glu Ser Thr
 145 150 155 160

Thr Val His Ser Ser Pro Val Ala Thr Ala Thr Thr Pro Ser Pro Ala
 165 170 175

Arg Ser Thr Thr Ser Gly Leu Val Glu Glu Ser Thr Thr Tyr His Ser
 180 185 190

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Glu Ser Thr Pro Ser Arg Leu Ser Pro Ser Ser Thr Glu Thr Thr Thr
 770 775 780
 Leu Pro Gly Ser Pro Thr Thr Pro Ser Leu Ser Glu Lys Ser Thr Thr
 785 790 795 800
 Phe Tyr Thr Ser Pro Arg Ser Pro Asp Ala Thr Leu Ser Pro Ala Thr
 805 810 815
 Thr Thr Ser Ser Gly Val Ser Glu Glu Ser Ser Thr Ser His Ser Gln
 820 825 830
 Pro Gly Ser Thr His Thr Thr Ala Phe Pro Asp Ser Thr Thr Thr Ser
 835 840 845
 Gly Leu Ser Gln Glu Pro Lys Thr Ser His Ser Ser Gln Gly Ser Thr
 850 855 860
 Glu Ala Thr Leu Ser Pro Gly Ser Thr Thr Ala Ser Ser Leu Gly Gln
 865 870 875 880
 Gln Ser Thr Thr Phe His Ser Ser Pro Gly Asp Thr Glu Thr Thr Leu
 885 890 895
 Leu Pro Asp Asp Thr Ile Thr Ser Gly Leu Val Glu Ala Ser Thr Pro
 900 905 910
 Thr His Ser Ser Thr Gly Ser Leu His Thr Thr Leu Thr Pro Ala Ser
 915 920 925
 Ser Thr Ser Ala Gly Leu Gln Glu Glu Ser Thr Thr Phe Gln Ser Trp
 930 935 940
 Pro Ser Ser Ser Asp Thr Thr Pro Ser Pro Pro Gly Pro
 945 950 955

 <210> 1066
 <211> 914
 <212> PRT
 <213> Homo sapiens

 <400> 1066
 Met Gly Pro Phe Lys Ser Ser Val Phe Ile Leu Ile Leu His Leu Leu
 5 10 15
 Glu Gly Ala Leu Ser Asn Ser Leu Ile Gln Leu Asn Asn Asn Gly Tyr
 20 25 30
 Glu Gly Ile Val Val Ala Ile Asp Pro Asn Val Pro Glu Asp Glu Thr
 35 40 45
 Leu Ile Gln Gln Ile Lys Asp Met Val Thr Gln Ala Ser Leu Tyr Leu

340	345	350
Ala His Val Gln Ser Glu Leu Ile Gln Ile Asn Ser Gly Ser Asp Arg		
355	360	365
Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala Ala Ser Gly Gly Thr Ser		
370	375	380
Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr Val Ile Arg Lys Lys Tyr		
385	390	400
Pro Thr Asp Gly Ser Glu Ile Val Leu Leu Thr Asp Gly Glu Asp Asn		
405	410	415
Thr Ile Ser Gly Cys Phe Asn Glu Val Lys Gln Ser Gly Ala Ile Ile		
420	425	430
His Thr Val Ala Leu Gly Pro Ser Ala Ala Gln Glu Leu Glu Glu Leu		
435	440	445
Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr Ala Ser Asp Gln Val Gln		
450	455	460
Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Leu Ser Ser Gly Asn Gly		
465	470	475
Ala Val Ser Gln Arg Ser Ile Gln Leu Glu Ser Lys Gly Leu Thr Leu		
485	490	495
Gln Asn Ser Gln Trp Met Asn Gly Thr Val Ile Val Asp Ser Thr Val		
500	505	510
Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp Thr Thr Gln Pro Pro Gln		
515	520	525
Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys Gln Gly Gly Phe Val Val		
530	535	540
Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln Ile Pro Gly Ile Ala Lys		
545	550	555
Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala Ser Ser Gln Thr Leu Thr		
565	570	575
Leu Thr Val Thr Ser Arg Ala Ser Asn Ala Thr Leu Pro Pro Ile Thr		
580	585	590
Val Thr Ser Lys Thr Asn Lys Asp Thr Ser Lys Phe Pro Ser Pro Leu		
595	600	605
Val Val Tyr Ala Asn Ile Arg Gln Gly Ala Ser Pro Ile Leu Arg Ala		
610	615	620
Ser Val Thr Ala Leu Ile Glu Ser Val Asn Gly Lys Thr Val Thr Leu		

10025380-123901

[illegible]

<211> 585

<212> PRT

<213> Homo sapiens

<400> 1067

Thr Leu Ser Pro Ala Ser Met Arg Ser Ser Ser Ile Ser Gly Glu Pro
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Thr Ser Leu Tyr Ser Gln Ala Glu Ser Thr His Thr Thr Ala Phe Pro
20 25 30

Ala Ser Thr Thr Thr Ser Gly Leu Ser Gln Glu Ser Thr Thr Phe His
35 40 45

Ser Lys Pro Gly Ser Thr Glu Thr Thr Leu Ser Pro Gly Ser Ile Thr
50 55 60

Thr Ser Ser Phe Ala Gln Glu Phe Thr Thr Pro His Ser Gln Pro Gly
65 70 75 80

Ser Ala Leu Ser Thr Val Ser Pro Ala Ser Thr Thr Val Pro Gly Leu
85 90 95

Ser Glu Glu Ser Thr Thr Phe Tyr Ser Ser Pro Gly Ser Thr Glu Thr
100 105 110

Thr Ala Phe Ser His Ser Asn Thr Met Ser Ile His Ser Gln Gln Ser
115 120 125

Thr Pro Phe Pro Asp Ser Pro Gly Phe Thr His Thr Val Leu Pro Ala
130 135 140

Thr Leu Thr Thr Thr Asp Ile Gly Gln Glu Ser Thr Ala Phe His Ser
145 150 155 160

Ser Ser Asp Ala Thr Gly Thr Thr Pro Leu Pro Ala Arg Ser Thr Ala
165 170 175

Ser Asp Leu Val Gly Glu Pro Thr Thr Phe Tyr Ile Ser Pro Ser Pro
180 185 190

Thr Tyr Thr Thr Leu Phe Pro Ala Ser Ser Ser Thr Ser Gly Leu Thr
195 200 205

Glu Glu Ser Thr Thr Phe His Thr Ser Pro Ser Phe Thr Ser Thr Ile
210 215 220

Val	Ser	Thr	Glu	Ser	Leu	Glu	Thr	Leu	Ala	Pro	Gly	Leu	Cys	Gln	Glu
225					230					235					240

Glu Gly Thr Pro Gly Ile Phe Gln Lys Thr Ala Ile Trp Glu Asp Gln
530 535 540

Asn Leu Arg Glu Ser Arg Phe Gly Leu Glu Asn Ala Tyr Asn Asn Phe
545 550 555 560

Arg Pro Thr Leu Glu Thr Val Asp Ser Gly Thr Glu Leu His Ile Gln
565 570 575

Arg Pro Glu Met Val Ala Ser Thr Val
580 585

<210> 1068

<211> 5179

<212> PRT

<213> Homo sapiens

<400> 1068

Met Gly Leu Pro Leu Ala Arg Leu Ala Ala Val Cys Leu Ala Leu Ser
5 10 15

Leu Ala Gly Gly Ser Glu Leu Gln Thr Glu Gly Arg Thr Arg Tyr His
20 25 30

Gly Arg Asn Val Cys Ser Thr Trp Gly Asn Phe His Tyr Lys Thr Phe
35 40 45

Asp Gly Asp Val Phe Arg Phe Pro Gly Leu Cys Asp Tyr Asn Phe Ala
50 55 60

Ser Asp Cys Arg Gly Ser Tyr Lys Glu Phe Ala Val His Leu Lys Arg
65 70 75 80

Gly Pro Gly Gln Ala Glu Ala Pro Ala Gly Val Glu Ser Ile Leu Leu
85 90 95

Thr Ile Lys Asp Asp Thr Ile Tyr Leu Thr Arg His Leu Ala Val Leu
100 105 110

Asn Gly Ala Val Val Ser Thr Pro His Tyr Ser Pro Gly Leu Leu Ile
115 120 125

Glu Lys Ser Asp Ala Tyr Thr Lys Val Tyr Ser Arg Ala Gly Leu Thr
130 135 140

Leu Met Trp Asn Arg Glu Asp Ala Leu Met Leu Glu Leu Asp Thr Lys
145 150 155 160

Phe Arg Asn His Thr Cys Gly Leu Cys Gly Asp Tyr Asn Gly Leu Gln
165 170 175

Ser Tyr Ser Glu Phe Leu Ser Asp Gly Val Leu Phe Ser Pro Leu Glu
180 185 190

100653801

Ser Val Phe Ser Ile Cys His Ser Lys Val Asp Pro Lys Pro Phe Tyr
 1060 1065 1070
 Glu Ala Cys Val His Asp Ser Cys Ser Cys Asp Thr Gly Gly Asp Cys
 1075 1080 1085
 Glu Cys Phe Cys Ser Ala Val Ala Ser Tyr Ala Gln Glu Cys Thr Lys
 1090 1095 1100
 Glu Gly Ala Cys Val Phe Trp Arg Thr Pro Asp Leu Cys Pro Ile Phe
 1105 1110 1115 1120
 Cys Asp Tyr Tyr Asn Pro Pro His Glu Cys Glu Trp His Tyr Glu Pro
 1125 1130 1135
 Cys Gly Asn Arg Ser Phe Glu Thr Cys Arg Thr Ile Asn Gly Ile His
 1140 1145 1150
 Ser Asn Ile Ser Val Ser Tyr Leu Glu Gly Cys Tyr Pro Arg Cys Pro
 1155 1160 1165
 Lys Asp Arg Pro Ile Tyr Glu Glu Asp Leu Lys Lys Cys Val Thr Ala
 1170 1175 1180
 Asp Lys Cys Gly Cys Tyr Val Glu Asp Thr His Tyr Pro Pro Gly Ala
 1185 1190 1195 1200
 Ser Val Pro Thr Glu Glu Thr Cys Lys Ser Cys Val Cys Thr Asn Ser
 1205 1210 1215
 Ser Gln Val Val Cys Arg Pro Glu Glu Gly Lys Ile Leu Asn Gln Thr
 1220 1225 1230
 Gln Asp Gly Ala Phe Cys Tyr Trp Glu Ile Cys Gly Pro Asn Gly Thr
 1235 1240 1245
 Val Glu Lys His Phe Asn Ile Cys Ser Ile Thr Thr Arg Pro Ser Thr
 1250 1255 1260
 Leu Thr Thr Phe Thr Thr Ile Thr Leu Pro Thr Thr Pro Thr Ser Phe
 1265 1270 1275 1280
 Thr Thr Thr Thr Thr Thr Thr Thr Pro Thr Ser Ser Thr Val Leu Ser
 1285 1290 1295
 Thr Thr Pro Lys Leu Cys Cys Leu Trp Ser Asp Trp Ile Asn Glu Asp
 1300 1305 1310
 His Pro Ser Ser Gly Ser Asp Asp Gly Asp Arg Glu Pro Phe Asp Gly
 1315 1320 1325
 Val Cys Gly Ala Pro Glu Asp Ile Glu Cys Arg Ser Val Lys Asp Pro
 1330 1335 1340

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His	Leu	Ser	Leu	Glu	Gln	His	Gly	Gln	Lys	Val	Gln	Cys	Asp	Val	Ser	
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Val	Gly	Phe	Ile	Cys	Lys	Asn	Glu	Asp	Gln	Phe	Gly	Asn	Gly	Pro	Phe	
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Gly	Leu	Cys	Tyr	Asp	Tyr	Lys	Ile	Arg	Val	Asn	Cys	Cys	Trp	Pro	Met	
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Asp	Lys	Cys	Ile	Thr	Thr	Pro	Ser	Pro	Pro	Thr	Thr	Thr	Pro	Ser	Pro	
		1395					1400						1405			
Pro	Pro	Thr	Thr	Thr	Thr	Thr	Leu	Pro	Pro	Thr	Thr	Thr	Pro	Ser	Pro	
	1410						1415					1420				
Pro	Thr	Thr	Thr	Thr	Thr	Thr	Pro	Pro	Pro	Thr	Thr	Thr	Pro	Ser	Pro	
1425					1430						1435					1440
Pro	Ile	Thr	Thr	Thr	Thr	Thr	Pro	Leu	Pro	Thr	Thr	Thr	Pro	Ser	Pro	
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Pro	Ile	Ser	Thr	Thr	Thr	Thr	Pro	Pro	Pro	Thr	Thr	Thr	Pro	Ser	Pro	
			1460					1465						1470		
Pro	Thr	Thr	Thr	Pro	Ser	Pro	Pro	Thr	Thr	Thr	Pro	Ser	Pro	Pro	Thr	
		1475					1480					1485				
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	1490					1495						1500				
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		1555					1560					1565				
Thr	Thr	Thr	Pro	Pro	Pro	Thr	Thr	Thr	Pro	Ser	Pro	Pro	Thr	Thr	Thr	
	1570					1575					1580					
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1585					1590						1595					1600
Thr	Pro	Ser	Pro	Pro	Thr	Thr	Thr	Thr	Thr	Thr	Pro	Pro	Pro	Thr	Thr	
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Thr	Pro	Ser	Pro	Pro	Thr	Thr	Thr	Pro	Ile	Thr	Pro	Pro	Thr	Ser	Thr	
			1620					1625					1630			

Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro
 1925 1930 1935
 Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr
 1940 1945 1950
 Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr
 1955 1960 1965
 Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly
 1970 1975 1980
 Thr Gln Thr Pro Thr Thr Thr Thr Pro Ile Thr Thr Thr Thr Val Thr
 1985 1990 1995 2000
 Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile
 2005 2010 2015
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 2020 2025 2030
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 Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr
 2050 2055 2060
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 2195 2200 2205

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		2515					2520					2525			
Thr	Pro	Thr	Pro	Thr	Pro	Thr	Gly	Thr	Gln	Thr	Pro	Thr	Thr	Pro	
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Ile	Thr	Thr	Thr	Thr	Thr	Val	Thr	Pro	Thr	Pro	Thr	Pro	Thr	Gly	Thr
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Gln	Thr	Pro	Thr	Thr	Thr	Pro	Ile	Thr	Thr	Thr	Thr	Thr	Val	Thr	Pro
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Thr	Pro	Thr	Pro	Thr	Gly	Thr	Gln	Thr	Pro	Thr	Thr	Thr	Pro	Ile	Thr
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Pro	Thr	Thr	Thr	Pro	Ile	Thr	Thr	Thr	Thr	Thr	Val	Thr	Pro	Thr	Pro
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			2740					2745					2750		
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		2755					2760					2765			
Thr	Pro	Thr	Thr	Thr	Pro	Ile	Thr	Thr	Thr	Thr	Thr	Val	Thr	Pro	Thr
	2770					2775						2780			

Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr
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Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr
3955 3960 3965

Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr
3970 3975 3980

Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val
3985 3990 3995 4000

Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro
4005 4010 4015

Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr
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Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro
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Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr
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Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr
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Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro
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Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr Thr Pro Ile Thr Thr Thr
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Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr
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Thr Thr Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro
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Thr Gly Thr Gln Thr Pro Thr Thr Thr Pro Ile Thr Thr Thr Thr Thr
4145 4150 4155 4160

Val Thr Pro Thr Pro Thr Pro Thr Gly Thr Gln Thr Pro Thr Thr Thr
4165 4170 4175

Pro Ile Thr Thr Thr Thr Thr Val Thr Pro Thr Pro Thr Pro Thr Gly
4180 4185 4190

Thr Gln Thr Gly Pro Pro Thr His Thr Ser Thr Ala Pro Ile Ala Glu
4195 4200 4205

Leu Thr Thr Ser Asn Pro Pro Pro Glu Ser Ser Thr Pro Gln Thr Ser
4210 4215 4220

10022001

Cys Thr Lys Thr Val Leu Met Asn His Cys Ser Gly Ser Cys Gly Thr
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Phe Val Met Tyr Ser Ala Lys Ala Gln Ala Leu Asp His Ser Cys Ser
5105 5110 5115 5120

Cys Cys Lys Glu Glu Lys Thr Ser Gln Arg Glu Val Val Leu Ser Cys
5125 5130 5135

Pro Asn Gly Gly Ser Leu Thr His Thr Tyr Thr His Ile Glu Ser Cys
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Gln Cys Gln Asp Thr Val Cys Gly Leu Pro Thr Gly Thr Ser Arg Arg
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Ala Arg Arg Ser Pro Arg His Leu Gly Ser Gly
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<210> 1069

<211> 1173

<212> DNA

<213> Homo sapiens

<400> 1069

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gagtcttggg tgccaaacag atttgcagat caaggagAAC ccaggagttt caaagaagcg 180
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gatatcatca tgagacccag ctgtgctcct ggatggtttt accacaagtc caattgctat 360
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aacggagccc acctggcatc tatcctgagt ttaaaggaag ccagcaccat agcagagtac 480
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atgggtggga acaagcactg tgctgagatg agctccaata acaacttttt aacttggagc 660
agcaacgaat gcaacaagcg ccaacacttc ctgtgcaagt accgaccata gagcaagaat 720
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<210> 1070

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1070

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 20 25 30
 Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu
 35 40 45
 Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly
 50 55 60
 Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala
 65 70 75 80
 Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu
 85 90 95
 His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met
 100 105 110
 Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His
 115 120 125
 Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn
 130 135 140
 Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro
 145 150 155

<210> 1071
 <211> 1114
 <212> DNA
 <213> Homo sapiens

<400> 1071
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 gtgggaacaa gcactgtgct gagatgagct ccaataacaa ctttttaact tggagcagca 540
 acgaatgcaa caagcgccaa cacttcctgt gcaagtaccg accatagagc aagaatcaag 600
 attctgctaa ctctgcaca gccccgtcct ctctctttct gctagcctgg ctaaatctgc 660
 tcattatttc agaggggaaa cctagcaaac taagagtgat aagggcccta ctacactggc 720
 ttttttaggc ttagagacag aaacttttagc attggcccag tagtggcttc tagctctaaa 780
 tgtttgcccc gccatccctt tccacagtat ccttcttccc tctcccctg tctctggctg 840
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tgcttgTTTT tcctttggcc ataggaaggt ttaccagtag aatccttgct aggttgatgt 1080
gggccatata ttcctttaat aaaccattgt gtac 1114

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<210> 1072

<211> 1152

<212> DNA

<213> Homo sapiens

<400> 1072

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agctacatcc tcagggtagg aggaagatgg cttccagaag catgcggtcg ctccatttgc 180
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tatggattgg cctgcacgac ccacagaaga ggcagcagtg gcagtggtatt gatggggcca 480
tgtatctgta cagatcctgg tctggcaagt ccatgggtgg gaacaagcac tgtgctgaga 540
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cattgtgtac at 1152

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<210> 1073

<211> 474

<212> DNA

<213> Homo sapiens

<400> 1073

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ctgggtgata tcatcatgag acccagctgt gctcctggat ggttttacca caagtccaat 120
tgctatgggt acttcaggaa gctgaggaac tggctctgat ccgagctcga gtgtcagtct 180
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aagtccatgg gtgggaacaa gcactgtgct gagatgagct ccaataacaa ctttttaact 420
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<210> 1074

<211> 1114

<212> DNA

<213> Homo sapiens

<400> 1074

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gaagcatgcg gctgctccta ttgctgagct gcctggccaa aacaggagtc ctgggtgata 180
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<210> 1075

<211> 614

<212> DNA

<213> Homo sapiens

<400> 1075

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<210> 1076

<211> 3345

<212> DNA

<213> Homo sapiens

<400> 1076

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cacaatctcc aggttgcagc cctggacgct aatggaatta tagtggaggg tccagtccct 420
atcaccatag aagtgaagga catcaacgac aatcgaccca cgtttctcca gtcaaagtac 480
gaaggctcag taaggcagaa ctctgcacca ggaaagccct tcttgtatgt caatgccaca 540
gacctggatg atccggccac tcccaatggc cagctttatt accagattgt catccagctt 600
cccatgatca acaatgtcat gtactttcag atcaacaaca aaacgggagc catctctctt 660
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<210> 1077

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1077

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Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn
130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro
145 150 155

<210> 1079

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1079

Met Ala Ser Arg Ser Met Arg Leu Leu Leu Leu Leu Ser Cys Leu Ala
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Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro
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Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu
35 40 45

Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly
50 55 60

Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala
65 70 75 80

Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu
85 90 95

His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met
100 105 110

Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His
115 120 125

Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn
130 135 140

Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro
145 150 155

<210> 1080

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1080

1080-1080

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 Ser Lys Tyr Glu Gly Ser Val Arg Gln Asn Ser Arg Pro Gly Lys Pro
 130 135 140
 Phe Leu Tyr Val Asn Ala Thr Asp Leu Asp Asp Pro Ala Thr Pro Asn
 145 150 155 160
 Gly Gln Leu Tyr Tyr Gln Ile Val Ile Gln Leu Pro Met Ile Asn Asn
 165 170 175
 Val Met Tyr Phe Gln Ile Asn Asn Lys Thr Gly Ala Ile Ser Leu Thr
 180 185 190
 Arg Glu Gly Ser Gln Glu Leu Asn Pro Ala Lys Asn Pro Ser Tyr Asn
 195 200 205
 Leu Val Ile Ser Val Lys Asp Met Gly Gly Gln Ser Glu Asn Ser Phe
 210 215 220
 Ser Asp Thr Thr Ser Val Asp Ile Ile Val Thr Glu Asn Ile Trp Lys
 225 230 235 240
 Ala Pro Lys Pro Val Glu Met Val Glu Asn Ser Thr Asp Pro His Pro
 245 250 255
 Ile Lys Ile Thr Gln Val Arg Trp Asn Asp Pro Gly Ala Gln Tyr Ser
 260 265 270
 Leu Val Asp Lys Glu Lys Leu Pro Arg Phe Pro Phe Ser Ile Asp Gln
 275 280 285
 Glu Gly Asp Ile Tyr Val Thr Gln Pro Leu Asp Arg Glu Glu Lys Asp
 290 295 300
 Ala Tyr Val Phe Tyr Ala Val Ala Lys Asp Glu Tyr Gly Lys Pro Leu
 305 310 315 320
 Ser Tyr Pro Leu Glu Ile His Val Lys Val Lys Asp Ile Asn Asp Asn
 325 330 335
 Pro Pro Thr Cys Pro Ser Pro Val Thr Val Phe Glu Val Gln Glu Asn
 340 345 350
 Glu Arg Leu Gly Asn Ser Ile Gly Thr Leu Thr Ala His Asp Arg Asp
 355 360 365
 Glu Glu Asn Thr Ala Asn Ser Phe Leu Asn Tyr Arg Ile Val Glu Gln
 370 375 380

Thr Pro Lys Leu Pro Met Asp Gly Leu Phe Leu Ile Gln Thr Tyr Ala
 385 390 395 400
 Gly Met Leu Gln Leu Ala Lys Gln Ser Leu Lys Lys Gln Asp Thr Pro
 405 410 415
 Gln Tyr Asn Leu Thr Ile Glu Val Ser Asp Lys Asp Phe Lys Thr Leu
 420 425 430
 Cys Phe Val Gln Ile Asn Val Ile Asp Ile Asn Asp Gln Ile Pro Ile
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 Phe Glu Lys Ser Asp Tyr Gly Asn Leu Thr Leu Ala Glu Asp Thr Asn
 450 455 460
 Ile Gly Ser Thr Ile Leu Thr Ile Gln Ala Thr Asp Ala Asp Glu Pro
 465 470 475 480
 Phe Thr Gly Ser Ser Lys Ile Leu Tyr His Ile Ile Lys Gly Asp Ser
 485 490 495
 Glu Gly Arg Leu Gly Val Asp Thr Asp Pro His Thr Asn Thr Gly Tyr
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 Val Ile Ile Lys Lys Pro Leu Asp Phe Glu Thr Ala Ala Val Ser Asn
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 Ile Val Phe Lys Ala Glu Asn Pro Glu Pro Leu Val Phe Gly Val Lys
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 Tyr Asn Ala Ser Ser Phe Ala Lys Phe Thr Leu Ile Val Thr Asp Val
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 Asn Glu Ala Pro Gln Phe Ser Gln His Val Phe Gln Ala Lys Val Ser
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 Glu Asp Val Ala Ile Gly Thr Lys Val Gly Asn Val Thr Ala Lys Asp
 580 585 590
 Pro Glu Gly Leu Asp Ile Ser Tyr Ser Leu Arg Gly Asp Thr Arg Gly
 595 600 605
 Trp Leu Lys Ile Asp His Val Thr Gly Glu Ile Phe Ser Val Ala Pro
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 Leu Asp Arg Glu Ala Gly Ser Pro Tyr Arg Val Gln Val Val Ala Thr
 625 630 635 640
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<211> 265
<212> DNA
<213> Homo sapiens
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<210> 1083
<211> 44
<212> PRT
<213> Homo sapiens
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<211> 344
<212> PRT
<213> Homo sapiens
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		20						25					30		
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala
		35					40					45			
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val
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Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr
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Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr
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Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser
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Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr
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Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Ile	Trp	Val	Arg	Val	Ser	Asn
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 Gly Phe Leu Gly Cys Cys Gly Ala Ile Lys Glu Ser Arg Cys Met Leu
 180 185 190
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 Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys Ser Asp Arg Ile Val
 210 215 220
 Asn Glu Thr Leu Tyr Glu Asn Thr Lys Leu Leu Ser Ala Thr Gly Glu
 225 230 235 240
 Ser Glu Lys Gln Phe Gln Glu Ala Ile Ile Val Phe Gln Glu Glu Phe
 245 250 255
 Lys Cys Cys Gly Leu Val Asn Gly Ala Ala Asp Trp Gly Asn Asn Phe
 260 265 270
 Gln His Tyr Pro Glu Leu Cys Ala Cys Leu Asp Lys Gln Arg Pro Cys
 275 280 285
 Gln Ser Tyr Asn Gly Lys Gln Val Tyr Lys Glu Thr Cys Ile Ser Phe
 290 295 300
 Ile Lys Asp Phe Leu Ala Lys Asn Leu Ile Ile Val Ile Gly Ile Ser
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<210> 1086
 <211> 2877
 <212> DNA
 <213> Homo sapiens

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<210> 1087

<211> 958

<212> PRT

<213> Homo sapiens

<400> 1087

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Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
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Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
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Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
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Val Thr Trp Gln Thr Lys Ser Gly Thr Arg Thr Gly Asn Val Thr
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33

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<210> 1092

<211> 2864

<212> DNA

<213> Homo sapiens

<400> 1092

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<211> 1109

<212> DNA

1096
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<213> Homo sapiens

<400> 1096

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<212> DNA

<213> Homo sapiens

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<211> 875

<212> DNA

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<211> 1987

<212> DNA

<213> Homo sapiens

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<211> 401

<212> DNA

<213> Homo sapiens

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<211> 840

<212> PRT

<213> Homo sapiens

<400> 1102

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Gly Ala Ala Ala Lys Ser Gln Val Ile Ser Asn Ala Lys Asn Thr Val
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Gln Gly Phe Lys Arg Phe His Gly Arg Ala Phe Ser Asp Pro Phe Val
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10052001

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<211> 2326

<212> DNA

<213> Homo sapiens

<400> 1103

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Asp Gly Arg Lys Val Thr Val Ile Glu Arg Asp Leu Lys Glu Pro Asp
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Arg Ile Val Gly Glu Phe Leu Gln Pro Gly Gly Tyr His Val Leu Lys
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Asp Leu Gly Leu Gly Asp Thr Val Glu Gly Leu Asp Ala Gln Val Val
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Asn Gly Tyr Met Ile His Asp Gln Glu Ser Lys Ser Glu Val Gln Ile
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Pro Tyr Pro Leu Ser Glu Asn Asn Gln Val Gln Ser Gly Arg Ala Phe
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Asp Asp Val Val Met Gly Val Gln Tyr Lys Asp Lys Glu Thr Gly Asp

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Ser Pro Tyr His Pro Gly Ser Cys Gly Ala Gly Ala Pro Ser Pro Gly
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Ser Ser Asp Ser Gly Gly Ser Asp Val Asp Leu Asp Pro Thr Asp Gly
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Lys Leu Phe Pro Ser Asp Gly Phe Arg Asp Cys Lys Lys Gly Asp Pro
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Tyr Trp Asp Cys Leu Glu Gly Lys Lys Ser Lys His Ala Pro Arg Gly
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Lys Asp Thr Glu Ile Thr Cys Ser Glu Arg Val Arg Thr Tyr Trp Ile
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Ile Ile Glu Leu Lys His Lys Ala Arg Glu Lys Pro Tyr Asp Ser Lys
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Pro Glu Phe Ser Met Gln Gly Leu Lys Ala Gly Val Ile Ala Val Ile
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THE FUTURE OF THE FUTURE

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 His Ile Gln Ala Leu Ile Ser Gly Ile Glu Ala Gln Leu Ala Asp Val
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Glu	Leu	Thr	Leu	Leu	Arg	Pro	Ile	Gln	Ala	Leu	Gly	Thr	Glu	Tyr	Phe
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Lys	Ala	Leu	Ala	Ser	Tyr	Val	Ala	Ala	Cys	Gln	Ala	Ala	Gly	Val	Val
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Ile	Glu	Asp	Trp	Arg	Ala	Gln	Val	Gly	Cys	Glu	Ile	Thr	Cys	Pro	Glu
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Gln	Cys	Gly	Cys	Tyr	His	Asn	Gly	Ala	Tyr	Tyr	Glu	Pro	Glu	Gln	Thr
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Leu	Thr	Pro	Phe	Thr	Val	Thr	Thr	Lys	Asn	Gln	Asn	Arg	Gly	Asn	Pro
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Ala	Val	Ser	Tyr	Val	Arg	Val	Val	Thr	Val	Ala	Ala	Leu	Gly	Thr	Asn
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Leu	Thr	Ala	Leu	Pro	Val	Ser	Val	Ala	Asp	Gly	Arg	Ile	Ser	Val	Ala
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Gln	Gly	Ala	Ser	Lys	Ala	Leu	Leu	Val	Ala	Asp	Phe	Gly	Leu	Gln	Val
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His	Gly	Ala	Val	Cys	Gly	Leu	Cys	Gly	Asn	Met	Asp	Arg	Asn	Pro	Asn
	3010					3015					3020				
Asn	Asp	Gln	Val	Phe	Pro	Asn	Gly	Thr	Leu	Ala	Pro	Ser	Ile	Pro	Ile
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Trp	Gly	Gly	Ser	Trp	Arg	Ala	Pro	Gly	Trp	Asp	Pro	Leu	Cys	Trp	Asp
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Glu	Cys	Arg	Gly	Ser	Cys	Pro	Thr	Cys	Pro	Glu	Asp	Arg	Leu	Glu	Gln
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Tyr	Glu	Gly	Pro	Gly	Phe	Cys	Gly	Pro	Leu	Ala	Pro	Gly	Thr	Gly	Gly
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Pro	Phe	Thr	Thr	Cys	His	Ala	His	Val	Pro	Pro	Glu	Ser	Phe	Phe	Lys
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Cys	Lys	Ala	Leu	Ala	Ser	Tyr	Val	Ala	Ala	Cys	Gln	Ala	Ala	Gly	Val
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 Ala Asn Gly Gln Ile Arg Ala Ser Gln His Gly Ser Asp Val Val Ile
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Gln	Tyr	Glu	Gly	Pro	Gly	Phe	Cys	Gly	Pro	Leu	Ala	Ser	Gly	Thr	Gly
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Glu	Tyr	Leu	Leu	Ser	Ala	Pro	Cys	His	Gly	Pro	Pro	Leu	Gly	Ala	Glu
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Val	Glu	His 500	Pro	Asp	Lys	Phe	Leu	Lys 505	Phe	Gly	Met	Thr 510	Pro	Ser	Lys
Gly	Val	Leu 515	Phe	Tyr	Gly	Pro	Pro 520	Gly	Cys	Gly	Lys	Thr 525	Leu	Leu	Ala
Lys 530	Ala	Ile	Ala	Asn	Glu	Cys 535	Gln	Ala	Asn	Phe	Ile 540	Ser	Ile	Lys	Gly
Pro 545	Glu	Leu	Leu	Thr	Met 550	Trp	Phe	Gly	Glu	Ser 555	Glu	Ala	Asn	Val	Arg 560
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Gly Gly Gly Ala Ala Asp Arg Val Ile Asn Gln Ile Leu Thr Glu Met
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Asp Gly Met Ser Thr Lys Lys Asn Val Phe Ile Ile Gly Ala Thr Asn
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Gln Leu Ile Tyr Ile Pro Leu Pro Asp Glu Lys Ser Arg Val Ala Ile
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Glu Glu Ala Met Arg Phe Ala Arg Arg Ser Val Ser Asp Asn Asp Ile
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Arg Lys Tyr Glu Met Phe Ala Gln Thr Leu Gln Gln Ser Arg Gly Phe
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Gly Ser Phe Arg Phe Pro Ser Gly Asn Gln Gly Gly Ala Gly Pro Ser
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Cys	Arg	Lys	Gln	Leu	Ala	Gln	Ile	Lys	Glu	Met	Val	Glu	Leu	Pro	Leu
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Val	Glu	His	Pro	Asp	Lys	Phe	Leu	Lys	Phe	Gly	Met	Thr	Pro	Ser	Lys
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Gln Leu Ile Tyr Ile Pro Leu Pro Asp Glu Lys Ser Arg Val Ala Ile
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Glu Ile Cys Gln Arg Ala Cys Lys Leu Ala Ile Arg Glu Ser Ile Glu
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Ser Glu Ile Arg Arg Glu Arg Glu Arg Gln Thr Asn Pro Ser Ala Met
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Arg Lys Tyr Glu Met Phe Ala Gln Thr Leu Gln Gln Ser Arg Gly Phe
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<211> 732

<212> DNA

<213> Homo sapiens

<400> 1120

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<210> 1121

<211> 446

<212> PRT

<213> Homo sapiens

<400> 1121

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10

15

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20

25

30

Ser Tyr Lys Gly Lys Trp Val Val Leu Phe Phe Tyr Pro Leu Asp Phe

35

40

45

Thr Phe Val Cys Pro Thr Glu Val Ile Ala Phe Ser Asp Ser Val Ser

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Ala	Arg	Ser 115	Tyr	Gly	Val	Leu	Glu 120	Glu	Ser	Gln	Gly	Val 125	Ala	Tyr	Arg
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Ala	Cys 210	Ile	Lys	Tyr	Ser	Met 215	Phe	Thr	Phe	Asn	Phe 220	Leu	Phe	Trp	Leu
Cys 225	Gly	Ile	Leu	Ile	Leu 230	Ala	Leu	Ala	Ile	Trp 235	Val	Arg	Val	Ser	Asn 240
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 370 375 380
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 385 390 395 400
 Ile Lys Asp Phe Leu Ala Lys Asn Leu Ile Ile Val Ile Gly Ile Ser
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 <210> 1122
 <211> 243
 <212> PRT
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 <400> 1122
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 Gly Ser Ser Ser Tyr Val Ala Val Asp Ile Leu Ile Ala Val Gly Ala
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 Ile Ile Met Ile Leu Gly Phe Leu Gly Cys Cys Gly Ala Ile Lys Glu
 65 70 75 80
 Ser Arg Cys Met Leu Leu Leu Phe Phe Ile Gly Leu Leu Leu Ile Leu
 85 90 95
 Leu Leu Gln Val Ala Thr Gly Ile Leu Gly Ala Val Phe Lys Ser Lys
 100 105 110
 Ser Asp Arg Ile Val Asn Glu Thr Leu Tyr Glu Asn Thr Lys Leu Leu
 115 120 125
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1122
 243
 PRT
 Homo sapiens
 1122

His His His

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50 55 60

Thr Ala Leu Lys Glu Glu Thr Glu Lys Val Ala Ala Val Arg Gln Leu
65 70 75 80

Glu Glu Ser Lys Thr Lys Ile Glu Asn Leu Leu Asn Trp Leu Ser Asn
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Val Glu Glu Asp Ser Glu Gly Val Trp Thr Lys His Thr Gln Pro Met
100 105 110

Glu Gln Asn Gly Thr Tyr Leu His Glu Gly Asp Ser Lys Leu Gly Ala
115 120 125

Gly Glu Glu Asp Glu Val Asn Gly Asn Leu Leu Glu Thr Asp Ala Glu
130 135 140

Gly His Ser Glu Ala Thr Lys Gly Asn Leu Asn Gln Gln Tyr Glu Lys
145 150 155 160

Val Lys Ala Gln His Gly Lys Ile Met Ala Gln His Gln Ala Val Leu
165 170 175

Leu Ala Thr Gln Ser Ala Gln Val Leu Leu Glu Lys Gln Gly His Tyr
180 185 190

Leu Ser Pro Glu Glu Lys Glu Lys Leu Gln Lys Asn Thr Gln Glu Leu
195 200 205

Lys Val His Tyr Glu Lys Val Leu Ala Glu Cys Glu Lys Lys Val Lys
210 215 220

Leu Thr His Ser Leu Gln Glu Glu Leu Glu Lys Phe Asp Thr Asp Tyr
225 230 235 240

Ser Glu Phe Glu His Trp Leu Gln Gln Ser Glu Gln Glu Leu Ala Asn
 245 250 255
 Leu Glu Ala Gly Ala Asp Asp Leu Ser Gly Leu Met Asp Lys Leu Thr
 260 265 270
 Arg Gln Lys Ser Phe Ser Glu Asp Val Ile Ser His Lys Gly Asp Leu
 275 280 285
 Arg Tyr Ile Thr Ile Ser Gly Asn Arg Val Ile Asp Ala Ala Lys Ser
 290 295 300
 Cys Ser Lys Arg Asp Ser Asp Arg Ile Gly Lys Asp Ser Val Glu Thr
 305 310 315 320
 Ser Ala Thr His Arg Glu Val Gln Thr Lys Leu Asp Gln Val Thr Asp
 325 330 335
 Arg Phe Arg Ser Leu Tyr Ser Lys Cys Ser Val Leu Gly Asn Asn Leu
 340 345 350
 Lys Asp Leu Val Asp Gln Tyr Gln Gln Tyr Glu Asp Ala Ser Cys Gly
 355 360 365
 Leu Leu Ser Gly Leu Gln Ala Cys Glu Ala Lys Ala Ser Lys His Leu
 370 375 380
 Arg Glu Pro Ile Ala Leu Asp Pro Lys Asn Leu Gln Arg Gln Leu Glu
 385 390 395 400
 Glu Thr Lys Ala Leu Gln Gly Gln Ile Ser Ser Gln Gln Val Ala Val
 405 410 415
 Glu Lys Leu Lys Lys Thr Ala Glu Val Leu Leu Asp Ala Lys Gly Ser
 420 425 430
 Leu Leu Pro Ala Lys Asn Asp Ile Gln Lys Thr Leu Asp Asp Ile Val
 435 440 445
 Gly Arg Tyr Asp Asp Leu Ser Lys Cys Val Asn Glu Arg Asn Glu Lys
 450 455 460
 Leu Gln Ile Thr Leu Thr Arg Ser Leu Ser Val Gln Asp Ala Leu Asp
 465 470 475 480
 Glu Met Leu Asp Trp Met Gly Ser Val Glu Ser Ser Leu Val Lys Pro
 485 490 495
 Gly Gln Val Pro Leu Asn Ser Thr Ala Leu Gln Asp Leu Ile Ser Lys
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[illegible]

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<212> PRT
 <213> Homo sapiens

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 35 40 45

Glu Cys Leu Asn Val Ala Ile Phe Leu Lys Ala Arg Arg Val Thr Leu
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<210> 1129

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1129

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 20 25 30

Val Glu Ala Ser Asn Met Ser Val Ile Ser Ser His Ser Glu Ile Lys
 35 40 45

Arg Leu Ile Leu Val Phe Ile Phe Trp His Phe Lys Phe Tyr Ile Asn
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Gly Cys Arg Trp Arg Leu Ser Pro Thr Asn Ile Phe Lys Trp Ile Phe
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Leu Asn Leu Asn Phe Lys
 85

10025380-12901